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Soil Survey of Elko County, Nevada, Southeast Part Part II

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Soil Survey of

Elko County, Nevada, Southeast Part

This soil survey is an inventory and evaluation of the soils in the survey area. It can be used to adjust land uses to the limitations and potentials of natural resources and the environment. Also, it can help to prevent soil-related failures in land uses.

In preparing a soil survey, soil scientists, conservationists, engineers, and others collect extensive field data about the nature and behavioral characteristics of the soils. They collect data on erosion, droughtiness, flooding, and other factors that affect various soil uses and management. Field experience and collected data on soil properties and performance are used as a basis in predicting soil behavior.

Information in this section can be used to plan the use and management of soils for crops and pasture; as rangeland and woodland; as sites for buildings, sanitary facilities, highways and other transportation systems, and parks and other recreational facilities; and for wildlife habitat. It can be used to identify the potentials and limitations of each soil for specific land uses and to help prevent construction failures caused by unfavorable soil properties.

Interpretative ratings help engineers, planners, and others to understand how soil properties influence important nonagricultural uses, such as building site development and construction materials. The ratings

indicate the most restrictive soil features affecting the suitability of the soils for these uses.

Soils are rated in their natural state. No unusual modification of the soil site or material is made other than that which is considered normal practice for the rated use. Even though soils may have limitations, it is important to remember that engineers and others can modify soil features or can design or adjust the plans for a structure to compensate for most of the limitations. Many of these practices, however, are costly. The final decision in selecting a site for a particular use generally involves weighing the costs of site preparation and maintenance.

Planners and others using soil survey information can evaluate the effect of specific uses on productivity and on the environment in all or part of the survey area. The survey can help planners to maintain or create a land use pattern in harmony with the natural soil.

Contractors can use this survey to locate sources of sand and gravel, roadfill, and topsoil. They can use it to identify areas where bedrock, wetness, or very firm soil layers can cause difficulty in excavation.

Health officials, highway officials, engineers, and others may also find this survey useful. The survey can help them plan the safe disposal of wastes and locate sites for pavements, sidewalks, campgrounds, playgrounds, lawns, trees, and shrubs.

Crops and Pasture

General management needed for crops and pasture is suggested in this section. The system of land capability classification used by the Natural Resources Conservation Service is explained. The estimated yields of the main crops and pasture plants are listed for each soil in table 5 at the back of this publication.

Planners of management systems for individual fields or farms should consider the detailed information given in the description of each soil under the heading "Detailed Soil Map Units" in Part I of this Publication and in the "Soil Properties" portion of Part II. Specific information can be obtained from the local office of the Natural Resources Conservation Service or Cooperative Extension.

Yields per Acre

The average yields per acre that can be expected of the principal irrigated crops under a high level of management are shown in table 5, "Land Capability and Yields per Acre of Crops." In any given year, yields may be higher or lower than those indicated in the table because of variations in rainfall and other climatic factors. The land capability classification of each map unit also is shown in the table.

The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations are also considered.

For yields of irrigated crops, it is assumed that the irrigation system is adapted to the soils and to the crops grown, that good-quality irrigation water is uniformly applied as needed, and that tillage is kept to a minimum.

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include drainage, erosion control, and protection from flooding; the proper planting and seeding rates; suitable high-yielding crop varieties; appropriate and timely tillage; control of weeds, plant diseases, and harmful insects; favorable soil reaction and optimum levels of nitrogen, phosphorus, potassium, and trace elements for each crop; effective use of crop residue, barnyard manure,

and green manure crops; and harvesting that ensures the smallest possible loss.

The estimated yields reflect the productive capacity of each soil for each of the principal crops. Yields are likely to increase as new production technology is developed. The productivity of a given soil compared with that of other soils, however, is not likely to change.

Crops other than those shown in the table are grown in the survey area, but estimated yields are not listed because the acreage of such crops is small. The local office of the Natural Resources Conservation Service or Cooperative Extension can provide information about the management and productivity of the soils for those crops.

Pasture and Hayland Interpretations

Under good management, proper grazing is essential for the production of high quality forage, stand survival, and erosion control. Proper grazing helps plants to maintain sufficient and generally vigorous top growth during the growing season. Brush control is essential in many areas, and weed control generally is needed. Rotation grazing and renovation also are important management practices.

Yield estimates are often provided in animal unit months (AUM), the amount of forage or feed required to feed one animal unit (one cow, one horse, one mule, five sheep, or five goats) for 30 days.

Information about forage yields other than those shown in table 5, "Land Capability and Yields per Acre of Crops," can be provided by the local office of the Natural Resources Conservation Service or Cooperative Extension.

Land Capability Classification

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive

landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for rangeland, for woodland, or for engineering purposes.

In the capability system, as described in "Land Capability Classification," (27) soils generally are grouped at three levels: capability class, subclass, and unit. These levels indicate the degree and kinds of limitations affecting mechanized farming systems that produce the more commonly grown field crops, such as corn, small grain, cotton, hay, and field-grown vegetables. Only class and subclass are used in this survey.

Capability classes, the broadest groups, are designated by Roman numerals I through VIII. The numerals indicate progressively greater limitations and narrower choices for practical use.

If properly managed, soils in classes I, II, III, and IV are suitable for the mechanized production of commonly grown field crops and for pasture and woodland. The degree of the soil limitations affecting the production of cultivated crops increases progressively from class I to class IV. The limitations can affect levels of production and the risk of permanent soil deterioration caused by erosion and other factors.

Soils in classes V, VI, and VII are generally not suited to the mechanized production of commonly grown field crops without special management, but they are suitable for plants that provide a permanent cover, such as grasses and trees. The severity of the soil limitations affecting crops increases progressively from class V to class VII. The local office of the Cooperative Extension or Natural Resources Conservation Service can provide guidance on the use of these soils as cropland.

Areas in class VIII are generally not suitable for crops, pasture, or woodland without a level of management that is impractical. These areas may have potential for other uses, such as recreational facilities and wildlife habitat.

Capability subclasses indicate the dominant limitations in the class. They are designated by adding a small letter, *e*, *w*, *s*, or *c*, to the class numeral, for example, IIe. The letter *e* shows that the main hazard is the risk of erosion unless a close-growing plant cover is maintained; *w* shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); *s* shows that the soil is limited mainly because it is shallow, droughty, or stony; and *c* shows that the chief limitation is a climate that is very cold or very dry.

There are no subclasses in class I because the soils of this class have few limitations. Class V contains only the subclasses indicated by *w*, *s*, or *c* because the soils in class V are subject to little or no erosion. They have other

limitations that restrict their use mainly to pasture, rangeland, woodland, wildlife habitat, or recreation.

The irrigated capability classification of each farmland map unit is given in table 5, "Land Capability and Yields per Acre of Crops."

Erosion Factors

Soil erodibility factors *K_w* and *K_f* quantify the susceptibility of soil to detachment by water. A wind erodibility group (WEG) is a grouping of soils that have similar properties affecting their resistance to soil blowing. The Wind Erodibility Index (*I*) is based on the WEG and is used in the wind erosion equation. Soil erodibility factors *K_w* and *K_f* are used in the Revised Universal Soil Loss Equation. The procedure for predicting soil loss is useful in guiding the selection of soil and water conservation practices.

Soil Erodibility Factors *K_w* and *K_f*

Factor *K_w* shows the erodibility of the whole soil, and factor *K_f* shows the erodibility of only the fine-earth fraction, the material less than 2.0 millimeters in diameter. The soil erodibility factor indicates the susceptibility of a soil to sheet and rill erosion by water. The soil properties that influence erodibility are those that affect the infiltration rate, the movement of water through the soil, and the water storage capacity of the soil and those that allow the soil to resist dispersion, splashing, abrasion, and the transporting forces of rainfall and runoff. The most important soil properties are the content of silt plus very fine sand, the content of sand coarser than very fine sand, the content of organic matter, soil structure, and permeability.

Wind Erodibility Groups

Soils are assigned wind erodibility groups on the basis of the properties of the surface layer. The properties that are most important with respect to soil blowing are soil texture, content of organic matter, calcium carbonate, reaction, content of rock fragments, and aggregate stability. Wind erodibility is inversely related to the percentage of dry surface soil aggregates larger than 0.84 millimeter in diameter. From this percentage, the wind erodibility index factor (*I*) is determined.

Soil Loss Tolerance (T) Factor

The annual Soil Loss Tolerance (*T*) is an estimate of the maximum rate of erosion that can occur without affecting crop productivity. The *T* factor is expressed in tons of soil

loss per acre per year. Values of 1 to 5 are used. T values are assigned according to properties of limiting subsurface soil layers. The designation of a limiting layer implies that the material above the layer has more favorable properties for crop production. The criteria for assigning T are based on the severity of physical or chemical properties of subsurface layers, the climatically influenced properties of

soil moisture and temperature, the economic feasibility of utilizing management practices to overcome limiting layers or conditions, and the depth to the limiting layer.

Additional information about wind erodibility groups and I, Kw, Kf, and T factors can be obtained from local offices of the Natural Resources Conservation Service or Cooperative Extension.

Rangeland And Grazeable Woodland Resource Management

In this soil survey report, the term "rangeland" refers to a kind of land rather than a land use. Areas of rangeland provide many important resource values. They act as vast watersheds and provide habitat for wildlife, livestock forage, and opportunities for recreation. The resource values of rangeland are intricately related to each other and are often directly affected by rangeland management. Because of the interrelationships among rangeland resources, rangeland managers should consider all resource values when planning range improvements.

About 89 percent of the acreage in this survey area is rangeland. Livestock grazing is the principal agricultural use of the rangeland. Livestock operations are mostly cow-calf or cow-calf-sheep enterprises. Ranches range from a few hundred to several thousands acres in size. They rely heavily on permitted use of public lands. Most of the rangeland within the survey area is administered by the Bureau of Land Management. The Bureau of Indian Affairs has management responsibility for the rangeland within Indian reservations.

Soil-Site Correlation

During the course of this soil survey, ecological sites were correlated with the soils identified within the survey area. These correlations are based on the current understanding of soil-plant-climate relationships in the survey area. Soil properties that affect moisture supply and plant nutrients have the greatest influence on the productivity of range plants. Soil reaction, content of salts or lime, and topographic position are also important. The relationship of climate to vegetation and soils is considered in the classification of soils and in soil mapping criteria. In areas that have similar climate and topography, differences in the kind and amount of vegetation produced on rangeland are closely related to the kind of soil. Ecological sites can generally be determined from soil maps and map unit legends developed for the survey area.

Range Condition

Mining is the major industrial use of rangeland in the survey area and has played an important role in the history of the area. During the mining booms of the 1870's, herds of cattle, sheep, oxen, horses, and burros were brought to Elko County to be used as a source of power and feed for the developing mining communities. Heavy grazing pressure during these boom periods depleted native stands of forage throughout much of the survey area.

The early devastation of rangeland plant communities through uncontrolled livestock grazing ended long ago, but severely depleted areas still reflect the abuses of early settlement. In the most severely disturbed areas, palatable shrubs generally have been replaced by less desirable shrubs and many native perennial grasses and forbs have been replaced by alien or introduced annual grasses and forbs. Recovery of the plant community has been most evident where previous abuses were limited. The greater the level of deterioration, the longer the period of recovery. Although present-day rangeland production and plant diversity in the survey area are generally less than optimal, the overall condition of the rangeland is much improved from what was common in the early 1900's.

Range condition is determined by a comparison of the present plant community with the natural potential plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential plant community, the higher the range condition. Range condition is an ecological rating only. It does not have a specific meaning that pertains to the present plant community for a given use. Ratings of range condition alone do not indicate whether the present plant community is improving or deteriorating in relation to its potential. The trend in range condition is a measure of the direction of change in the condition. It is an expression of the effects of current use. The present range condition is a reflection of the accumulated effects of past use. Once the potential plant communities have been identified and the present range condition has been determined, monitoring the trend in range condition over time can indicate whether management objectives are being met.

Rangeland Management

Range management requires knowledge of the kinds of soil and of the natural potential plant communities the soils in a given area can support. It also requires an evaluation of the present range condition. For most rangeland plant communities, good management can improve the present condition and productivity of the range and can help to prevent accelerated erosion. Proper management of rangeland depends on many factors. The season of grazing use, the kind of grazing animal, the intensity and distribution of grazing, and the range resource potential are important management considerations. Multiple-use management that meets present and future needs requires extensive knowledge of the capabilities and limitations of the range resources. An understanding of the soil properties and dynamics of native plant communities is fundamental in applying ecological principles to the evaluation and management of rangeland.

Generally, the objective of range management is to manage grazing so that the plants growing on a site are about the same in kind and amount as the natural potential plant community for that site. Such management generally results in the optimum production of vegetation, conservation of water, and control of erosion. To meet a special need or a specific use, however, it may be desirable to manage for a plant community other than the potential plant community for the site. Care must always be taken not to increase the susceptibility to erosion. Future uses and the relative ability of given sites to respond to management should be considered if the management objective is to establish a plant community other than the potential plant community.

Desirable forage plants of many plant communities within the survey area have been greatly depleted or even eliminated by excessive and untimely grazing. Generally, perennial grasses have decreased in abundance and woody plants have increased. The productivity of forage plants is below the production potential on many sites. Uneven livestock distribution has resulted in both overuse and underuse of the native forage.

An increase in the abundance and size of shrubs and an extensive invasion of cheatgrass (an introduced annual grass) have reduced the amount of soil moisture and nutrients available to perennial grasses and forbs. In areas where the range condition has not excessively deteriorated and an adequate population of desirable perennial grasses and forbs is available to respond to a release from plant competition, brush management can be effective in reversing the trend toward an increasing dominance of woody vegetation.

Abusive grazing of riparian vegetation by livestock can reduce water quality, eliminate streamside shrubs, cause soil compaction, accelerate erosion, and break down streambanks. Proper management of the rangeland in the survey area requires that special attention be given to riparian zones. Fortunately, riparian communities often respond to improved livestock management more rapidly than upland plant communities. Grazing treatments in riparian areas vary with the stability of the riparian plant community and the condition of the adjacent upland plant communities.

Rangeland Seeding

Rangeland seeding may be required following the removal of woody vegetation in areas where desirable understory plants are scarce or are not included in the present plant community. Revegetation also may be necessary for critical area treatment following a wildfire or other major disturbance. Maximum grazing capacity can be achieved in seeded stands where the objective of management is uniform grazing of the stands and prevention of the concentration of livestock. Additional water developments and fencing may be required to meet management objectives.

The success of range seeding depends on the amount of moisture available during the growing season. Even in areas where adapted species are planted and improved seeding and land treatment techniques are applied, the success of range seeding is strongly influenced by rainfall. The distribution and amount of precipitation in the survey area fluctuate widely from one year to the next. Years of below normal precipitation are relatively frequent, and the risk of seeding failure caused by the unpredictability of climate should be acknowledged in addition to critical soil properties that affect seeding success.

Each soil in the survey area is rated in table 6, "Suitability for Rangeland Seeding." The criteria used in the development of these ratings are available from the local Nevada office of the Natural Resources Conservation Service. Where critical area treatment is necessary, providing a plant cover that helps to prevent accelerated erosion may be advantageous on soils that are poorly suited to range seeding. The plants that are suited to the soils in the area to be treated should be selected for seeding.

More specific management concerns are addressed under the heading "Plant Communities in Elko County, Nevada, Southeast Part" later in this section. Additional information about rangeland management can be obtained from local offices of the Natural Resources Conservation Service or Cooperative Extension.

Wildlife Considerations

Reducing the extent of brush cover can benefit many game and nongame wildlife species where the habitat needs of those animals are properly identified and planned for in the manipulation of vegetation. For instance, extensive areas dominated by big sagebrush provide marginal habitat for pronghorn antelope. The habitat can be improved by measures that decrease the density and height of the sagebrush. The habitat for mule deer can be improved by removing big sagebrush and thus enhancing the diversity of understory grasses and forbs or increasing the production of green forage on transitional range that has an excessive cover of shrubs.

For other species, however, brush removal may be detrimental. Sage grouse is a habitat-specific bird, relying primarily on sagebrush to meet its life requirements. Plans for the manipulation of sagebrush stands on range inhabited by sage grouse should provide for the maintenance of suitable grouse habitat, especially nesting habitat near strutting grounds. The optimum nesting habitat for sage grouse is one in which the crown cover of sagebrush that is less than 30 inches high is 20 to 40 percent. Treatment of the sagebrush that reduces the cover from 40 to 20 percent may not seriously degrade the nesting habitat and commonly improves the quality of forage for sage grouse.

In an assessment of how the manipulation of vegetation affects wildlife, "edge" habitat is an important consideration. The structure and dominance of plants that remain after manipulation differ with the method of treatment. Fire removes all of the vegetation, including the skeletons or woody portions of shrubs, and thus eliminates the structure of woody vegetation from the treated area. Prescribed burning may enhance the habitat for a number of wildlife species. Mule deer and many nongame species select recently burned areas for feeding. Brush treatment with herbicides leaves the dead skeletons of shrubs and retains the shrub structure. Herbicides may kill broad-leaved forbs in the shrub understory, which are staples in the diet of many game and nongame species. Chaining and, to a lesser degree, brush beating change the vegetative structure from tree/shrub or shrub to grassland, and the residue they leave on the ground creates habitat for small mammals.

Many wildlife species in the survey area depend on riparian plant communities during much of the year. These plant communities support wildlife not common to desert ecosystems, such as short-eared owls, Pacific tree frogs, and long-tailed weasels. Riparian communities also provide islands of habitat in desert environments for migrating birds. Nuthatches, warblers, and other species

that nest in forest ecosystems migrate to desert riparian zones in spring and fall.

Livestock water developments can be beneficial to wildlife if the water is available when the wildlife species occupy the area. Forage for wildlife can be enhanced if adapted forbs are included in a rangeland seeding.

More specific wildlife management concerns are addressed under the heading "Plant Communities in Elko County, Nevada, Southeast Part." Additional information about wildlife management can be obtained from local offices of the Natural Resources Conservation Service, Cooperative Extension, or Nevada Division of Wildlife.

Plant Communities in Elko County, Nevada, Southeast Part

A rangeland ecological site is a distinctive kind of rangeland that differs from other kinds of rangeland in its ability to produce a characteristic natural plant community. An ecological site is the product of all environmental factors responsible for its development. It can support a native plant community typified by an association of species that differs from the potential plant community of other ecological sites in the kind or proportion of species or in total production. Disturbances, such as drought, fire, and grazing by native fauna, and the damage caused by insects and disease are recognized as natural factors in the development of native plant communities.

The appendix "Rangeland Plants and Woodland Understory" shows the rangeland plants and woodland understory for each soil and contrasting inclusion in the detailed soil map units, the rangeland or woodland ecological site, the common plant name and scientific plant symbol for the characteristic vegetation, the average percent composition for each species in the potential plant community, the rangeland or woodland ecological site, and the total annual production of vegetation in favorable, normal, and unfavorable years. The characteristic vegetation, which consists of the grasses, forbs, shrubs, and immature trees that make up most of the potential plant community for each soil, is listed by common name. For rangeland, the expected percentage of the total annual production is given for each species making up the characteristic vegetation. The amount that can be used as forage depends on the kinds of grazing animals, the grazing season, and the availability of forage. Many plants, trees, and shrubs are inaccessible to foraging animals. For woodland, the percentage of the total annual production is not given because of a wide variation of production under different tree canopies. The presence of a plant species in the understory vegetation is shown by an "X" in the composition section of the table.

Total potential production is the amount of vegetation that can be expected to grow annually on well managed rangeland or woodland that supports the potential natural community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's production of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, above average amounts and optimum timing of precipitation during periods of warm temperatures make growing conditions substantially better than average. In a normal year, growing conditions are about average. In an unfavorable year, growing conditions are well below average, generally because of low available soil moisture.

Riparian areas or meadows are interspersed throughout the survey area. Riparian vegetation grows on the flood plains along perennial streams. Stringer meadows are along spring-fed stream channels where moisture is available to plants throughout most of the growing season. Meadow vegetation also grows on the periphery of seeps and springs. Although they make up a small acreage in the survey area, the riparian zones are important because they provide free water, which improves the productivity of the riparian vegetation and lengthens the growing season of the vegetation. The zones are characterized by diverse plant species and a structural diversity of vegetation. The zones along stream channels are typically linear. The linear nature of the zones maximizes the edge effect between the zones and the adjacent uplands. An "edge," or ecotone, is a transition between plant communities or a joining of different vegetative structures within plant communities. It commonly is richer in wildlife than either of the adjoining communities.

Elko County, Nevada, Southeast Part is in the northeastern part of the Basin and Range Physiographic Province. The major plant associations in the survey area typify the general zonation of vegetation common in the Great Basin Region. Valley floors and the lower piedmont slopes are dominated by salt-desert shrub plant communities. Above the salt-desert shrub zone, sagebrush-grass plant communities are prevalent in areas where the mean annual precipitation is 8 inches or more.

Salt-desert shrub communities normally reflect either a climatically dry environment where the mean annual precipitation is less than 8 inches or physiologically dry soil conditions. High concentrations of salts that interfere with the uptake of water by plants can create physiologically dry soil conditions. Representative shrubs of the salt-desert shrub communities are shadscale, bud sagebrush, winterfat, and Douglas rabbitbrush. The common grasses include Indian ricegrass, bottlebrush squirreltail, Sandberg bluegrass, and desert needlegrass.

The salt-desert shrub plant communities in the survey area include stands dominated by a single shrub species and stands that support relatively heterogeneous mixtures of shrubs and grasses. The vegetation is generally sparse, normally covering less than 20 percent of the surface. Wind erosion and water erosion are hazards because of the naturally sparse plant cover in most areas. The interspaces between plants in salt-desert shrub communities commonly are stabilized by surface pavements of rock fragments, by a puddled and crusted soil surface, or by microphytic (algae) surface crusts. These protective features can be damaged by livestock or off-road vehicle traffic.

Salt-desert shrub plant communities are most valuable as winter range for livestock. They can produce high-quality winter forage and are usually subject to only light snowfall. Most of the desirable forage species in these communities are adversely affected by grazing in late winter (March and April), heavy use, or both. Where native rangeland communities are grazed in winter, an emergency supply of feed should be readily available to carry livestock through periods of unusually severe weather.

Properly regulated grazing management can enhance the long-term productivity of salt-desert shrub plant communities. This management includes deferred grazing during critical growth periods in late winter, rotational grazing, and control of the intensity and season of use. Fencing, herding, water hauling, and controlling livestock access to watering facilities can achieve a better distribution of grazing. Because of the harsh environment of the salt-desert shrub zone, manipulation of vegetation and revegetation projects generally are not advisable.

Salt-desert shrub communities provide habitat for a wide variety of nongame species, including whiptail lizards, antelope ground squirrels, loggerhead shrikes, and Pacific rattlesnakes. Plant communities that are dominated by shadscale or winterfat and associated forbs and grasses provide important winter range for pronghorn antelope. Fencing can deter the migration of pronghorn antelope because these animals commonly do not jump. As a result, the lower wire of the fences should be high enough for antelope to crawl under. Where feasible, the fence lines should be routed so that they cause the least disruption to antelope travel. Livestock water developments are beneficial to antelope and other wildlife if the water is available when the animals occupy the area. Few mule deer use salt-desert shrub communities, which generally are unimportant in deer management. Feral horses use these communities in winter.

Within the salt-desert shrub zone are low areas that commonly receive extra moisture as runoff from higher landscape positions and as shallow, low-velocity overflow during periods of runoff. Black greasewood, basin big sagebrush, and basin wildrye are important plants on

these sites. When in good condition, these plant communities can produce more than 2,000 pounds of basin wildrye per acre. When in poor condition, however, they typically produce less than 500 pounds per acre. The potential for increasing the production of basin wildrye is good on many sites in poor or fair condition in the survey area. Basin wildrye provides standing dried forage during its fall and winter dormancy and can provide calving areas in late winter. Mule deer, pygmy rabbits, and northern harriers inhabit basin wildrye communities throughout the year.

Other plant communities that reflect extra moisture conditions are adjacent to valley floor playas. These areas may have a high water table during periods of runoff. Black greasewood, shadscale, inland saltgrass, and basin wildrye are the characteristic plants on these sites.

Plant communities that are dominated by black greasewood provide thermal cover for many species of wildlife but have limited value for big game. Because of its spines and coarse structure, black greasewood provides protective cover to nesting birds and small mammals. Although this species is not a preferred forage plant for livestock, cattle and sheep eat the succulent spring growth. On late fall and winter ranges, the fruit of black greasewood and shadscale provides nutritious and palatable feed. The soluble oxalates in black greasewood may be harmful to livestock, especially sheep, if the new growth is excessively grazed in spring.

As snow melts in spring, runoff commonly drains into valley floor basins. It remains for short periods, providing nesting and feeding habitat for some waterfowl. Playas containing water in spring are important resting places for migrating waterfowl. Sand dunes formed through the deposition of windblown sediment are commonly on the leeward side of the playas in this survey area. Although of limited extent, partially stabilized sand dunes provide important habitat for both predator and prey vertebrate wildlife. Kangaroo rats, kit foxes, and bobcats inhabit the sand dunes.

Sagebrush-grass plant communities are at the lower elevations (5,800 to 6,100 feet) in the survey area. The average annual precipitation at these elevations is between 8 and 10 inches.

Wyoming big sagebrush, black sagebrush, and, to a lesser extent, basin big sagebrush are the dominant woody sagebrush plants at the lower elevations in the survey area. Cool-season perennial grasses are potentially the dominant herbaceous plants in the sagebrush-grass plant communities. Thurber needlegrass, Indian ricegrass, bottlebrush squirreltail, and Sandberg bluegrass are important cool-season bunch grasses. Grazing pressure has been severe on the sagebrush-grass plant communities at the lower elevations. These plant communities are the first to begin growth, or "greenup,"

during the warming periods of early spring and have traditionally been used for spring grazing by livestock. Close grazing spring after spring will eventually eliminate the perennial understory of grasses and forbs.

Grazing management practices can enhance the long-term productivity of sagebrush-grass communities. These practices include deferred grazing during critical growth periods in spring, rotational grazing, and control of the intensity and season of use. Fencing, herding, water hauling, and controlling livestock access to watering facilities can achieve a better distribution of grazing and facilitate grazing management.

Very few sources of perennial water are available in the sagebrush-grass zone at the lower elevations. Therefore, water developments and watering facilities are key elements in grazing management. Also, they can be of significant value to wildlife. Where the range condition has not deteriorated excessively and an adequate population of desirable perennial grasses and forbs is available to respond to a release from plant competition, brush management can greatly enhance the production of forage for livestock and wildlife.

The selection of plants available for rangeland seeding in the 8- to 10-inch precipitation zone is limited. Suitable species that are tolerant of early spring grazing, however, can be seeded. These species can play a key role in the management of grazing on the adjacent native sagebrush-grass and salt-desert shrub plant communities. Years of below normal precipitation are relatively frequent in this zone. Thus, the factors to be considered in managing rangeland seeding include the risk of seeding failure caused by climate.

Although the sagebrush-grass communities at the lower elevations may provide transitional spring range to pronghorn antelope moving from winter to summer ranges, plant communities that are dominated by big sagebrush are not heavily used by the antelope. Fencing can deter migration of the antelope because these animals commonly do not jump. As a result, the lower wire of the fences should be high enough for the antelope to crawl under. Where feasible, the fence lines should be routed so that they cause the least disruption to antelope travel. Livestock water developments are beneficial to wildlife, especially deer and antelope, if the water is available when the animals are in the area.

During severe winters in areas of the sagebrush-grass communities at the lower elevations, sage grouse may feed on sagebrush that has not been covered by snow. Heavy snow at the higher elevations forces chukar partridge to move into these areas in search of food. The sagebrush-grass communities at the lower elevations are used primarily by mule deer and feral horses as winter range or as transitional range in spring. Spring grazing by livestock in areas used by deer as winter range should be

managed so that the turn out of livestock is delayed until after spring "greenup" and the migration of most of the deer.

Sagebrush-grass communities are at intermediate elevations (6,100 to 7,500 feet) in the survey area. The average annual precipitation at these elevations is between 10 and 14 inches.

Wyoming big sagebrush dominates the shrub canopy of the mid-elevation plant communities on the warmer, drier exposures. Basin big sagebrush is most common on the deeper soils at the lower elevations in this precipitation zone. Mountain big sagebrush is prevalent on the north aspects at the lower elevations of the zone and grows on all aspects at the higher elevations. Low sagebrush and black sagebrush are the dominant types of dwarf sagebrush at the mid and upper elevations in the survey area. Bluebunch wheatgrass, Thurber needlegrass, Canby bluegrass, Sandberg bluegrass, and basin wildrye are the major perennial grasses associated with these mid-elevation sagebrush-grass communities. Antelope bitterbrush is an important shrub in many plant communities at these elevations.

The mid-elevation sagebrush-grass communities are suitable for grazing by livestock in summer and fall. Deferred grazing during critical growth periods in spring and early summer, rotational grazing, and control of the intensity and season of use can enhance the long-term productivity of these communities. Fencing, herding, and strategically locating livestock watering facilities help to achieve a better distribution of grazing and facilitate grazing management. Relatively few sources of perennial water are available in areas of the mid-elevation sagebrush-grass zone. As a result, water developments and watering facilities are key elements in grazing management and can be of significant value to wildlife.

Wyoming big sagebrush communities at mid elevations are used primarily as winter range by mule deer. They commonly provide habitat for Brewer's sparrow, black-tailed jackrabbits, and sagebrush lizards. They provide wintering areas for sage grouse. Low sagebrush communities provide important summer range for pronghorn antelope and brood-rearing habitat for sage grouse. Livestock water developments can be beneficial to wildlife, especially deer and antelope, if the water is available when the animals are in the area. Mountain big sagebrush and low sagebrush communities provide spring, summer, and fall range for mule deer and feral horses.

Seasonal grazing by livestock removes old grass residue and exposes the regrowth of succulent green stems and leaves that provide food for mule deer. The steep rock-faced cliffs common to these mid elevations have ledges, joints, cracks, and occasional caves and thus provide safe sites for birds and small mammals to nest and rear their young. The common nongame species are sage thrasher,

the Great Basin gopher snake, and desert mouse. Areas of exposed lava flow rock, natural breaks in the cliffs, and the associated talus commonly are used as travel lanes by wildlife, including mule deer.

Brush management practices can be very effective in increasing the production of native forage in the mid-elevation sagebrush-grass zone. They can be beneficial to wildlife as well as livestock. Opening up large, homogeneous stands of sagebrush commonly improves the habitat for wildlife, such as mule deer and pronghorn antelope. Rangeland seeding may be required following the removal of woody vegetation where desirable understory plants are scarce or are not included in the present plant community. A number of forbs and grasses are suitable for dryland seeding in the 10-to 14-inch precipitation zone. Including suitable forbs in the seeding mixture helps to provide additional forage for wildlife, such as pronghorn antelope, mule deer, and sage grouse.

Pinyon and juniper plant communities are at mid to upper elevations in the survey area. Local expansion of pinyon or juniper from woodland sites to the adjacent rangeland is common. The invasion of juniper and pinyon into sagebrush-grass communities has been attributed to overgrazing, a scarcity of naturally recurring fires, and climatic conditions. Young trees are readily killed by fire. The loss of fine fuel to carry fire and, to a lesser extent, fire control have limited the frequency and extent of natural fires in the sagebrush-grass zone. This reduction in the frequency of fires has allowed seedlings to become established in increasing numbers on sites that at one time supported virtually no trees.

Livestock commonly concentrate on the woodland sites, taking advantage of the shade and shelter provided by the tree overstory. These sites also provide habitat for nongame wildlife species, including the bushy-tailed woodrat, the blue-grey gnat-catcher, and the American kestrel; thermal cover for mule deer; and habitat for small mammals and birds.

Areas that have a heterogeneous mixture of vegetative types, including grassland, low shrub, tall shrub, and tree-shrub communities, generally provide an optimum diversity of wildlife habitat. These types of vegetative complexes are common in the sagebrush-grass zones at the intermediate and upper elevations. Moderate browsing by cattle on antelope bitterbrush in fall can enhance the vigor and growth of the bitterbrush, which is later available for grazing by mule deer and antelope.

Stringer meadows are along spring-fed stream channels in the sagebrush-grass zones at the intermediate and upper elevations. Meadow vegetation also grows on the periphery of seeps and springs. Wet meadows adjacent to sagebrush stands are important as brood-rearing areas for sage grouse. During the first weeks after leaving the nest, sage grouse chicks eat mainly insects (ants and beetles)

and the succulent forbs that are common in wet meadows. Grazing of the meadows by cattle can improve the quality of feed for sage grouse if a period of regrowth is provided for the key forb species. Grazing increases the succulence of the forbs by interrupting the maturation of the plant tissues. The succulent or young leaf tissue is higher in protein and lower in fiber than mature tissue. As they seek sources of succulent forbs, sage grouse select meadows that have been grazed by cattle. Sage grouse chicks find food and cover in properly grazed meadows, which appear patchy because of different stubble heights remaining after livestock have grazed the meadows.

Improper grazing of riparian vegetation by livestock can cause gully erosion. This erosion, in turn, can result in lower water tables, the drying out of meadows, and the loss of valuable wildlife and livestock forage. Grazing management strategies that are sensitive to the development and maintenance of healthy riparian areas are needed.

The uppermost elevations of the survey area (about 7,500 feet and higher) typically support high-elevation sagebrush-grass plant communities. The average annual precipitation ranges from 14 to more than 18 inches. Mountain big sagebrush, low, and black sagebrush dominate the shrub canopy of these plant communities. The shrub understory grasses include Idaho fescue, western needlegrass, mountain brome, Columbia needlegrass, Letterman needlegrass, basin wildrye, slender wheatgrass, and bluebunch wheatgrass. Mountain browse species, such as snowberry, serviceberry, and antelope bitterbrush, are common in the shrub overstory. Curlleaf mountainmahogany stands are at the highest elevations, on mountain summits, and the upper side slopes. Areas of aspen woodland are common in concave pockets and along riparian zones in the western part of the survey area.

Plant communities on the high-elevation sites are potentially very productive and normally respond rapidly to management. These sites remain cold and wet through spring and into early summer. They are used as summer range for livestock. Grazing should be delayed until the surface layer has dried sufficiently for compaction to be limited. Snow often blankets these sites by late fall, further restricting the period of livestock grazing. Steeply sloping areas are common throughout the high-elevation sagebrush-grass zone. Livestock tend to overuse the less

sloping areas unless grazing is managed for an even distribution of grazing. Fencing, properly locating watering facilities, and herding force livestock to use areas that otherwise might remain ungrazed. Salt and mineral blocks should be placed away from water.

Mule deer use the high-elevation plant communities for summer range. North-facing slopes that have a patchwork of dense stands consisting of mountain browse are important deer-fawning areas. These dense stands should be maintained because they provide cover for wildlife. Areas of aspen woodland provide important cover for wildlife and are a source of shade for livestock and wildlife.

Seeps and springs are common at the high elevations. Water for livestock generally is readily available. Additional water developments may be needed, however, to distribute the livestock evenly. Developed springs, pipelines, and storage tanks are dependable means of supplying water. Seeps and springs developed to provide livestock water can also be beneficial to wildlife. Excluding livestock by fencing the meadow around a seep or spring and piping the water to troughs or other storage facilities outside the enclosure help to protect the meadow vegetation grazed by wildlife. Enough water must be retained in the fenced seep or spring area to maintain the meadow vegetation. Small meadows can be developed and maintained by piping overflow water from livestock troughs into fenced areas.

Many naturally occurring meadows in the sagebrush-grass zones at the mid and higher elevations have been heavily invaded by big sagebrush. The sagebrush depletes moisture from the meadows. If the sagebrush is removed, the quantity of water and the duration of waterflow increase as grasses return to the meadows. Prescribed burning of dense sagebrush stands can be an economical means of brush management in the high-elevation sagebrush-grass zone. Brush management practices should be designed so that enough of the shrub canopy remains near meadows to provide cover for wildlife.

Rangeland seeding of the high-elevation plant communities is usually not necessary. In most areas, the remnant population of desirable forbs and grasses is sufficient to respond to grazing management and a release from shrub competition. Where rangeland seeding is needed, a wide variety of suitable species can be planted because of the relatively high annual precipitation in this zone.

Forest Land

Table 7, "Woodland Management and Productivity," can be used by forest managers in planning the use of soils for wood crops. Only those soils suitable for wood crops are listed.

Woodland Ordination System

Table 7, "Woodland Management and Productivity," lists the ordination (woodland suitability) symbol for each soil. The ordination system is a nationwide uniform system of labeling soils or groups of soils that are similar in use and management. The primary factors evaluated in the woodland ordination system are productivity of the forest overstory tree species and the principal soil properties resulting in hazards and limitations that affect forest management. There are three parts of the ordination system: class, subclass, and group. The class and subclass are referred to as the ordination symbol.

Ordination Class Symbol

The first element of the ordination symbol is a number that denotes potential productivity in terms of cubic meters of wood per hectare per year for the indicator tree species. The larger the number, the greater the potential productivity. Potential productivity is based on site index and the corresponding culmination of mean annual increment. For example, the number 1 indicates a potential production of 1 cubic meter of wood per hectare per year (14.3 cubic feet per acre per year) and 10 indicates a potential production of 10 cubic meters of wood per hectare per year (143 cubic feet per acre per year).

Indicator species is a species that is common in the area and is generally, but not necessarily, the most productive on the soil. It is the species that determines the ordination class. It is the first species listed for a particular map unit in table 7, "Woodland Management and Productivity." This table shows the productivity for all species where data have been collected.

Site index is determined by taking height measurements and determining the age of selected trees within stands of a given species. This index is the average height, in feet,

that the trees attain in a specified number of years. This index applies to fully stocked, even-aged, unmanaged stands. The site indexes shown in table 7, "Woodland Management and Productivity," are averages based on measurements made at sites that are representative of the soil series. When the site index and forest land productivity of different soils are compared, the values for the same tree species should be compared. The higher the site index number, the more productive the soil for that species. Site index values are used in conjunction with yield tables to determine average annual yields. Indirectly, they are used to determine the productivity class in the ordination class symbol.

Ordination Subclass Symbol

The second element of the ordination symbol, or subclass, is a capital letter that indicates certain soil or physiographic characteristics that contribute to important hazards or limitations to be considered in management. The subclasses are defined as follows:

Subclass X indicates that forest land use and management are limited by stones or rocks.

Subclass W indicates that forest land use and management are significantly limited by excess water, either seasonally or throughout the year. Restricted drainage, a high water table, or flooding can adversely affect either stand development or management.

Subclass T indicates that the root zone has toxic substances. Excessive alkalinity, acidity, sodium salts, or other toxic substances impede the development of desirable species.

Subclass D indicates that forest land use and management are limited by a restricted rooting depth. The rooting depth is restricted by hard bedrock, a hardpan, or other restrictive layers in the soil.

Subclass C indicates that forest land use and management are limited by the kind or amount of clay in the upper part of the soil.

Subclass S indicates that the soil is sandy, has a low available water capacity, and normally has a low content of available plant nutrients. The use of equipment is limited during dry periods.

Subclass F indicates that forest land use and management are limited by a high content of rock fragments that are larger than 2 millimeters and smaller than 10 inches. This subclass includes flaggy soils.

Subclass R indicates that forest land use and management are limited by excessive slope.

Subclass A indicates that no significant limitations affect forest land use and management.

Forest Land Management and Productivity

Information about the productivity and management of the forested map units in the survey area is given in table 7, "Woodland Management and Productivity."

Management Concerns

In table 7, "Woodland Management and Productivity," the soils are rated for the erosion hazard, the equipment limitation, seedling mortality, the windthrow hazard, and plant competition.

The *erosion hazard* is *slight* if the expected soil loss is small; *moderate* if some measures are needed to control erosion during logging and road construction; and *severe* if intensive management or special equipment and methods are needed to prevent excessive soil loss.

The *equipment limitation* is *slight* if the use of equipment is not limited to a particular kind of equipment or time of year; *moderate* if there is a short seasonal limitation or a need for some modification in the management of

equipment; and *severe* if there is a seasonal limitation, a need for special equipment or management, or a hazard in the use of equipment.

Seedling mortality ratings are for seedlings that are from a good planting stock and that are properly planted during a period of average rainfall. A rating of *slight* indicates that the expected mortality of the planted seedlings is less than 25 percent; *moderate*, 25 to 50 percent; and *severe*, more than 50 percent.

Windthrow hazard is *slight* if trees in wooded areas are not expected to be blown down by commonly occurring winds; *moderate* if some trees are blown down during periods of excessive soil wetness and strong winds; and *severe* if many trees are blown down during periods of excessive soil wetness and moderate or strong winds.

Plant competition is *slight* if there is little or no competition from other plants; *moderate* if plant competition is expected to hinder the development of a fully stocked stand of desirable trees; and *severe* if plant competition is expected to prevent the establishment of a desirable stand unless the site is intensively prepared, weeded, or otherwise managed for the control of undesirable plants.

Potential Productivity

The potential productivity of merchantable or *common trees* is expressed as a site index, which is described under the heading "Ordination Class Symbol." Commonly grown trees are those that forest land managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value, and marketability.

Engineering

This section provides information for planning land uses related to urban development and to water management. Soils are rated for various uses, and the most limiting features are identified. Ratings are given for building site development and construction materials. The ratings are based on observed performance of the soils and on the estimated data and test data in the "Soil Properties" section.

Information in this section is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil within a depth of 5 or 6 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this section. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Soil properties, site features, and observed performance were considered in determining the ratings in this section. During the fieldwork for this soil survey, determinations were made about grain-size distribution, liquid limit, plasticity index, soil reaction, depth to bedrock, hardness of bedrock within 5 or 6 feet of the surface, soil wetness, depth to a seasonal high water table, slope, likelihood of flooding, natural soil structure aggregation, and soil density. Data were collected about kinds of clay minerals, mineralogy of the sand and silt fractions, and the kind of adsorbed cations. Estimates were made for erodibility, permeability, corrosivity, shrink-swell potential, available water capacity, and other behavioral characteristics affecting engineering uses.

This information can be used to evaluate the potential of areas for residential, commercial, industrial, and recreational uses; make preliminary estimates of construction conditions; evaluate alternative routes for roads, streets, highways, pipelines, and underground

cables; evaluate alternative sites for septic tank absorption fields; plan detailed onsite investigations of soils and geology; locate potential sources of gravel, sand, earthfill, and topsoil; and predict performance of proposed small structures and pavements by comparing the performance of existing similar structures on the same or similar soils.

The information in the tables, along with the soil maps, the soil descriptions, and other data provided in this survey, can be used to make additional interpretations.

Some of the terms used in this soil survey have a special meaning in soil science and are defined in the "Glossary."

Building Site Development

Table 8, "Building Site Development," shows the degree and kind of soil limitations that affect shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns and landscaping. The limitations are considered *slight* if soil properties and site features generally are favorable for the indicated use and limitations are minor and easily overcome; *moderate* if soil properties or site features are not favorable for the indicated use and special planning, design, or maintenance is needed to overcome or minimize the limitations; and *severe* if soil properties or site features are so unfavorable or so difficult to overcome that special design, significant increases in construction costs, and possibly increased maintenance are required. Special feasibility studies may be required where the soil limitations are severe.

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for basements, graves, utility lines, open ditches, and other purposes. The ratings are based on soil properties, site features, and observed performance of the soils. The ease of digging, filling, and compacting is affected by the depth to bedrock, a cemented pan, or a very firm dense layer; stone content; soil texture; and slope. The time of the year that excavations can be made is affected by the depth to a seasonal high water table and the susceptibility of the soil to flooding. The resistance of the excavation walls or banks to sloughing or caving is affected by soil texture and depth to the water table.

Dwellings and small commercial buildings are structures built on shallow foundations on undisturbed soil. The load limit is the same as that for single-family dwellings no higher than three stories. Ratings are made for small commercial buildings without basements, for dwellings with basements, and for dwellings without basements. The ratings are based on soil properties, site features, and observed performance of the soils. A high water table, flooding, shrinking and swelling, and organic layers can cause the movement of footings. A high water table, depth to bedrock or to a cemented pan, large stones, and flooding affect the ease of excavation and construction. Landscaping and grading that require cuts and fills of more than 5 or 6 feet are not considered.

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or stabilized soil material; and a flexible or rigid surface. Cuts and fills generally are limited to less than 6 feet. The ratings are based on soil properties, site features, and observed performance of the soils. Depth to bedrock or to a cemented pan, a high water table, flooding, large stones, and slope affect the ease of excavating and grading. Soil strength (as inferred from the engineering classification of the soil), shrink-swell potential, potential for frost action, and depth to a high water table affect the traffic-supporting capacity.

Lawns and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. The ratings are based on soil properties, site features, and observed performance of the soils. Soil reaction, a high water table, depth to bedrock or to a cemented pan, the available water capacity in the upper 40 inches, and the content of salts, sodium, and sulfidic materials affect plant growth. Flooding, wetness, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer affect trafficability after vegetation is established.

Waste Management

Soil properties are important when organic waste is applied as fertilizer and wastewater is applied in irrigated areas. They also are important when the soil is used as a medium for the treatment and disposal of the organic waste and wastewater. Unfavorable soil properties can result in environmental damage.

The use of organic waste and wastewater as production resources results in energy and resource conservation and minimizes the problems associated with waste disposal. If disposal is the goal, applying a maximum amount of the organic waste or the wastewater to a minimal area holds

costs to a minimum and environmental damage is the main hazard. If reuse is the goal, a minimum amount should be applied to a maximum area and environmental damage is unlikely.

Interpretations developed for waste management may include ratings for manure- and food-processing waste, municipal sewage sludge, use of wastewater for irrigation, and treatment of wastewater by slow rate, overland flow, and rapid infiltration processes.

Specific information regarding waste management is available at the local office of the Natural Resources Conservation Service or Cooperative Extension.

Construction Materials

Table 9, "Construction Materials," gives information about the soils as a source of roadfill, sand, gravel, and topsoil. The soils are rated *good*, *fair*, or *poor* as a source of roadfill and topsoil. They are rated as a *probable* or *improbable* source of sand and gravel.

Roadfill is soil material that is excavated in one place and used in road embankments in another place. In table 9, "Construction Materials," the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments.

The ratings are for the soil material below the surface layer to a depth of 5 or 6 feet. It is assumed that soil layers will be mixed during excavating and spreading. Many soils have layers of contrasting suitability within their profile. The table showing engineering index properties provides detailed information about each soil layer. This information can help to determine the suitability of each layer for use as roadfill. The performance of soil after it is stabilized with lime or cement is not considered in the ratings.

The ratings are based on soil properties, site features, and observed performance of the soils. The thickness of suitable material is a major consideration. The ease of excavation is affected by large stones, a high water table, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the engineering classification of the soil) and shrink-swell potential.

Soils rated *good* contain significant amounts of sand or gravel, or both. They have at least 5 feet of suitable material, a low shrink-swell potential, few cobbles and stones, and slopes of 15 percent or less. Depth to the water table is more than 3 feet. Soils rated *fair* are more than 35 percent silt- and clay-sized particles and have a plasticity index of less than 10. They have a moderate shrink-swell potential, slopes of 15 to 25 percent, or many stones. Depth to the water table is 1 to 3 feet. Soils rated

poor have one or more of the following characteristics: a plasticity index of more than 10, a high shrink-swell potential, many stones, slopes of more than 25 percent, or a water table at a depth of less than 1 foot. They may have layers of suitable material, but the material is less than 3 feet thick.

Sand and *gravel* are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. In table 9, "Construction Materials," only the probability of finding material in suitable quantity in or below the soil is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material.

The properties used to evaluate the soil as a source of sand or gravel are gradation of grain sizes (as indicated by the engineering classification of the soil), the thickness of suitable material, and the content of rock fragments. Kinds of rock, acidity, and stratification are given in the soil series descriptions. Gradation of grain sizes is given in the table on engineering index properties.

A soil rated as a probable source has a layer of clean sand or gravel or a layer of sand or gravel that is as much as 12 percent silty fines. This material must be at least 3 feet thick and less than 50 percent, by weight, large stones. All other soils are rated as an improbable source. Fragments of soft bedrock, such as shale and siltstone, are not considered to be sand and gravel.

Topsoil is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a

soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area.

Plant growth is affected by toxic material and by such properties as soil reaction, available water capacity, and fertility. The ease of excavating, loading, and spreading is affected by rock fragments, slope, a water table, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope, a water table, rock fragments, bedrock, and toxic material.

Soils rated *good* have friable, loamy material to a depth of at least 40 inches. They are free of stones and cobbles, have little or no gravel, and have slopes of less than 8 percent. They are low in content of soluble salts, are naturally fertile or respond well to fertilizer, and are not so wet that excavation is difficult.

Soils rated *fair* are sandy soils, loamy soils that have a relatively high content of clay, soils that have only 20 to 40 inches of suitable material, soils that have an appreciable amount of gravel, stones, or soluble salts, or soils that have slopes of 8 to 15 percent. The soils are not so wet that excavation is difficult.

Soils rated *poor* are very sandy or clayey; have less than 20 inches of suitable material; have a large amount of gravel, stones, or soluble salts; have slopes of more than 15 percent; or have a seasonal high water table at or near the surface.

The surface layer of most soils generally is preferred for topsoil because of its organic matter content. Organic matter greatly increases the absorption and retention of moisture and nutrients for plant growth.

Soil Properties

Data relating to soil properties are collected during the course of the soil survey. The data and the estimates of soil and water features listed in tables are explained on the following pages.

Soil properties are determined by field examination of the soils and by laboratory index testing of some benchmark soils. Established standard procedures are followed. During the survey, many shallow borings are made and examined to identify and classify the soils and to delineate them on the soil maps. Samples are taken from some typical profiles and tested in the laboratory to determine grain-size distribution, plasticity, and compaction characteristics.

Estimates of soil properties are based on field examinations, on laboratory tests of samples from the survey area, and on laboratory tests of samples of similar soils in nearby areas. Tests verify field observations, verify properties that cannot be estimated accurately by field observation, and help to characterize key soils.

The estimates of soil properties shown in the tables include the range of grain-size distribution and Atterberg limits, the engineering classification, and the physical and chemical properties of the major layers of each soil. Pertinent soil and water features also are given.

Engineering Index Properties

Table 10, "Engineering Index Properties" gives estimates of the engineering classification and of the range of index properties for the major layers of each soil in the survey area. Most soils have layers of contrasting properties within the upper 5 or 6 feet.

Depth to the upper and lower boundaries of each layer is indicated. The range in depth and information on other properties of each layer are given in the series descriptions in Part I of this survey.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52

percent sand. If the content of particles coarser than sand is as much as 15 percent, an appropriate modifier is added, for example, "gravelly." Textural terms are defined in the "Glossary."

Classification of the soils is determined according to the system adopted by the American Association of State Highway and Transportation Officials (1) and the Unified soil classification system (2).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to grain-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, SP-SM.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of grain-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves,

numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

The estimates of grain-size distribution, liquid limit, and plasticity index are generally rounded to the nearest 5 percent. Thus, if the ranges of gradation and Atterberg limits extend a marginal amount (1 or 2 percentage points) across classification boundaries, the classification in the marginal zone is omitted in the table.

Physical and Chemical Properties

Table 11, "Physical Properties of the Soils," and table 12, "Chemical Properties of the Soils," show estimates of some characteristics and features that affect soil behavior. These estimates are given for the major layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated. The range in depth and information on other properties of each layer are given in the series descriptions in Part I of this survey.

Clay as a soil separate, or component, consists of mineral soil particles that are less than 0.002 millimeter in diameter. The estimated clay content of each major soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The amount and kind of clay greatly affect the fertility and physical condition of the soil. They determine the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, permeability, plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earth-moving operations.

Moist bulk density is the weight of soil (oven-dry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3-bar moisture tension. Weight is determined after drying the soil at 105 degrees C. In table 11, "Physical Properties of the Soils," the estimated moist bulk density of each major soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. A

bulk density of more than 1.6 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Permeability refers to the ability of a soil to transmit water or air. The estimates indicate the rate of downward movement of water when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Permeability is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each major soil layer. The capacity varies depending on soil properties that affect the retention of water and the depth of the root zone. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Shrink-swell potential is the potential for volume change in a soil with a loss or gain in moisture. Volume change occurs mainly because of the interaction of clay minerals with water and varies with the amount and type of clay minerals in the soil. The size of the load on the soil and the magnitude of the change in soil moisture content influence the amount of swelling of soils in place. Laboratory measurements of swelling of undisturbed clods were made for many soils. For others, swelling was estimated on the basis of the kind and amount of clay minerals in the soil and on measurements of similar soils.

If the shrink-swell potential is rated moderate to very high, shrinking and swelling can cause damage to buildings, roads, and other structures. Special design is often needed.

Shrink-swell potential classes are based on the change in length of an unconfined clod as moisture content is increased from air-dry to field capacity. The classes are *low*, a change of less than 3 percent; *moderate*, 3 to 6 percent; and *high*, more than 6 percent. *Very high*, more than 9 percent, is sometimes used.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In table 11, "Physical Properties of Soils," the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained or increased by returning crop residue to the soil. Organic matter affects the available water capacity, infiltration rate,

and tith. It is a source of nitrogen and other nutrients for crops.

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) to predict the average rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, very fine sand, sand, and organic matter (as much as 4 percent) and on soil structure and permeability. The estimates are modified by the presence of rock fragments. Values of K range from 0.02 to 0.69. The higher the value, the more susceptible the soil is to sheet and rill erosion.

Erosion factor K_f indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average rate of soil erosion by wind or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their resistance to soil blowing in cultivated areas. The groups indicate the susceptibility of soil to soil blowing. Soils are grouped according to the following distinctions:

1. Coarse sands, sands, fine sands, and very fine sands. These soils generally are not suitable for crops. They are extremely erodible and vegetation is difficult to establish.
2. Loamy coarse sands, loamy sands, loamy fine sands, loamy very fine sands, and sapric soil material. These soils are very highly erodible. Crops can be grown if intensive measures to control soil blowing are used.
3. Coarse sandy loams, sandy loams, fine sandy loams, and very fine sandy loams. These soils are highly erodible. Crops can be grown if intensive measures to control soil blowing are used.
- 4L. Calcareous loams, silt loams, clay loams, and silty clay loams that have more than 5 percent finely divided calcium carbonate. These soils are highly erodible. Crops can be grown if intensive measures to control soil blowing are used.
4. Clays, silty clays, noncalcareous clay loams, and silty clay loams that are more than 35 percent clay. These soils are moderately erodible. Crops can be grown if measures to control soil blowing are used.
5. Noncalcareous loams and silt loams that are less than 20 percent clay and sandy clay loams, sandy clays, and hemic soil material. These soils have less than 5 percent finely divided calcium carbonate. These soils are moderately erodible. Crops can be grown if measures to control soil blowing are used.
6. Noncalcareous loams and silt loams that are more than 20 percent clay and noncalcareous clay loams that are less than 35 percent clay. These soils have less than 5

percent finely divided calcium carbonate. These soils are moderately erodible. Crops can be grown if ordinary measures to control soil blowing are used.

7. Silts, noncalcareous silty clay loams that are less than 35 percent clay, and fibric soil material. These soils have less than 5 percent finely divided calcium carbonate. These soils are very slightly erodible. Crops can be grown if ordinary measures to control soil blowing are used.

8. Soils that are not subject to soil blowing because of rock fragments on the surface or because of surface wetness.

Wind erodibility index is a numerical value indicating the susceptibility of soil to soil blowing, or the tons per acre per year that can be expected to be lost to soil blowing. There is a close correlation between soil blowing and the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence soil blowing.

Cation-exchange capacity is the total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. Soils having a low cation-exchange capacity hold fewer cations and may require more frequent applications of fertilizer than soils having a high cation-exchange capacity. Soils having a high cation-exchange capacity can retain cations. The ability to retain cations helps to prevent the pollution of ground water.

Soil reaction is a measure of acidity or alkalinity and is expressed as a range in pH values. The range in pH of each major horizon is based on many field tests. For many soils, values have been verified by laboratory analyses. Soil reaction is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion.

Calcium carbonate equivalent is the percent of carbonates, by weight, in the soil. The availability of plant nutrients is influenced by the amount of carbonates in the soil. Incorporating nitrogen fertilizer into calcareous soils helps to prevent nitrite accumulation and ammonium-N volatilization.

Gypsum is given as the percent, by weight, of hydrated calcium sulfates in the soil. Gypsum is partially soluble in water and can be dissolved and removed by water. Soils that have a high content of gypsum (more than 10 percent) may collapse if the gypsum is removed by percolating water.

Salinity is a measure of soluble salts in the soil at saturation. It is expressed as the electrical conductivity of the saturation extract, in millimhos per centimeter at 25 degrees C. Estimates are based on field and laboratory measurements at representative sites of nonirrigated soils.

The salinity of irrigated soils is affected by the quality of the irrigation water and by the frequency of water application. Hence, the salinity of soils in individual fields can differ greatly from the value given in the table. Salinity affects the suitability of a soil for crop production, the stability of the soil if used as construction material, and the potential of the soil to corrode metal and concrete.

Sodium adsorption ratio is the measure of sodium relative to calcium and magnesium in the water extract from saturated soil paste. Soils having a sodium adsorption ratio of 13 or more may be characterized by an increased dispersion of organic matter and clay particles, reduced permeability and aeration, and a general degradation of soil structure.

Water Features

Table 13, "Water Features," gives estimates of several important water features used in land use planning that involves engineering considerations. These features are described in the following paragraphs.

Hydrologic soil groups are groups of soils that, when saturated, have the same runoff potential under similar storm and ground cover conditions. The soil properties that affect the runoff potential are those that influence the minimum rate of infiltration in a bare soil after prolonged wetting and when the soil is not frozen. These properties include the depth to a seasonal high water table, the intake rate, permeability after prolonged wetting, and the depth to a very slowly permeable layer. The influences of ground cover and slope are treated independently and are not taken into account in hydrologic soil groups.

In the definitions of the hydrologic soil groups, the infiltration rate is the rate at which water enters the soil at the surface and is controlled by surface conditions. The transmission rate is the rate at which water moves through the soil and is controlled by properties of the soil layers.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist chiefly of very deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well or well drained soils that have a moderately fine to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils that have a moderately fine or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clayey soils that have a high shrink-swell potential, soils that have a permanent high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Flooding, the temporary covering of the soil surface by flowing water, is caused by overflow from streams or by runoff from adjacent slopes. Shallow water standing or flowing for short periods after rainfall or snowmelt is not considered flooding. Standing water in marshes and swamps or in closed depressions is considered to be ponding.

Table 13, "Water Features," gives the frequency and duration of flooding and the time of year when flooding is most likely to occur. Frequency, duration, and probable dates of occurrence are estimated. Frequency generally is expressed as none, rare, occasional, or frequent. *None* means flooding is not probable; *rare* that it is unlikely but is possible under unusual weather conditions (the chance of flooding is nearly 0 percent to 5 percent in any year); *occasional* that it occurs infrequently under normal weather conditions (the chance of flooding is 5 to 50 percent in any year); and *frequent* that it occurs often under normal weather conditions (the chance of flooding is 50 percent in any year). The term *common* includes both frequent and occasional flooding.

Duration is expressed as *very brief* (less than 2 days), *brief* (2 to 7 days), *long* (7 to 30 days), and *very long* (more than 30 days). The time of year that flooding is most likely to occur is expressed in months. About two-thirds to three-fourths of all flooding occurs during the stated period.

The information on flooding is based on evidence in the soil profile, namely thin strata of gravel, sand, silt, or clay deposited by floodwater; irregular decrease in organic matter content with increasing depth; and little or no horizon development.

Also considered are local information about the extent and level of flooding and the relation of each soil on the landscape to historic floods. Information on the extent of flooding based on soil data is less specific than that provided by detailed engineering surveys that delineate

flood-prone areas at specific flood frequency levels.

High water table (seasonal) is a zone of saturation at the highest average depth during the wettest season. It is at least 6 inches thick, persists in the soil for more than a few weeks, and is within 6 feet of the surface. Indicated in table 13, "Water Features," are the depth to the seasonal high water table, the kind of water table, and the months of the year when the water table usually is highest.

An *apparent* water table is indicated by the level at which water stands in a freshly dug, unlined borehole after adequate time for adjustments in the surrounding soil.

A *perched* water table is one that is above an unsaturated zone in the soil. The basis for determining that a water table is perched may be general knowledge of the area. The water table is proven to be perched if the water level in a borehole is observed to fall when the borehole is extended.

Two numbers in the column showing depth to the water table indicate the normal range in depth to a saturated zone. Depth is given to the nearest half foot. The first numeral in the range indicates the highest water level. A plus sign preceding the range in depth indicates that the water table is above the surface of the soil. "More than 6.0" indicates that the water table is below a depth of 6 feet or that it is within a depth of 6 feet for less than a month.

Ponding is standing water in a closed depression. Unless a drainage system is installed, the water is removed only by percolation, transpiration, or evaporation.

Soil Features

Table 14, "Soil Features," gives estimates of several important soil features used in land use planning that involves engineering considerations. These features are described in the following paragraphs.

Depth to bedrock is given if bedrock is within a depth of 60 inches. The depth is based on many soil borings and on observations during soil mapping. The rock is specified as either soft or hard. If the rock is soft or fractured, excavations can be made with trenching machines, backhoes, or small rippers. If the rock is hard or massive, blasting or special equipment generally is needed for excavation.

A *cemented pan* is a nearly continuous layer of indurated or strongly cemented material that is hard and brittle. The particles are held together by cementing substances, such as calcium carbonate and oxides of silicon, iron, or aluminum. Pans are identified when they are within a depth of 60 inches. They are classified as thin or thick. A

thin pan can be excavated by trenching machines, backhoes, small rippers, and other equipment commonly used to dig excavations for pipelines, sewer lines, and graves. A *thick* pan is so thick or massive that blasting or special equipment is needed when excavations are made.

Subsidence is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. Table 14, "Soil Features," shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

Potential frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, permeability, content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage mainly to pavements and other rigid structures.

A *low* potential for frost action indicates that the soil is rarely susceptible to the formation of ice lenses; a *moderate* potential indicates that the soil is susceptible to formation of ice lenses, resulting in frost heave and the subsequent loss of soil strength; and a *high* potential indicates that the soil is highly susceptible to formation of ice lenses, resulting in frost heave and the subsequent loss of soil strength.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that dissolves or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil.

Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than steel in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low*, *moderate*, or *high*, is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion is also expressed as *low*, *moderate*, or *high*. It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

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Glossary

Aeration, soil. The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.

Aggregate, soil. Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.

Alkali (sodic) soil. A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Alluvial cone. The material washed down the sides of mountains and hills by ephemeral streams and deposited at the mouth of gorges in the form of a moderately steep, conical mass descending equally in all directions from the point of issue.

Alluvial fan. The fanlike deposit of a stream where it issues from a narrow valley upon a plain, or of a tributary stream near or at its junction with its main stream.

Alluvial flat. A nearly level, graded, alluvial surface in bolsons and semi-bolsons. Commonly, an alluvial flat does not manifest terraces or floodplain levels.

Alluvium. Material, such as sand, silt, or clay, deposited on land by streams.

Alpha,alpha-dipridyl. A dye that when dissolved in 1N ammonium acetate is used to detect the presence of reduced iron (Fe II) in the soil. A positive reaction indicates a type of redoximorphic feature.

Animal unit month (AUM). The amount of forage required by one mature cow of approximately 1,000 pounds weight, with or without a calf, for 1 month.

Aquic conditions. Current soil wetness characterized by saturation, reduction, and redoximorphic features.

Area reclaim (in tables). An area difficult to reclaim after the removal of soil for construction and other uses. Revegetation and erosion control are extremely difficult.

Argillic horizon. A subsoil horizon characterized by an accumulation of illuvial clay.

Argillite. Weakly metamorphosed mudstone or shale.

Arroyo. The flat-floored channel of an ephemeral stream, commonly with very steep to vertical banks cut in alluvium.

Aspect. The direction in which a slope faces.

Association, soil. A group of soils or miscellaneous areas geographically associated in a characteristic repeating pattern and defined and delineated as a single map unit.

Available water capacity (available moisture capacity). The capacity of soils to hold water available for use by most plants. It is commonly defined as the difference between the amount of soil water at field moisture capacity and the amount at wilting point. It is commonly expressed as inches of water per inch of soil. The capacity, in inches, in a 60-inch profile or to a limiting layer is expressed as:

Very low	0 to 3.5
Low	3.5 to 5
Moderate.....	5 to 7.5
High	more than 7.5

Avalanche chute. The track or path formed by an avalanche.

Back slope. The geomorphic component that forms the steepest inclined surface and principal element of many hillsides. Back slopes in profile are commonly steep, are linear, and may or may not include cliff segments.

Backswamp. A floodplain landform of extensive, marshy, or swampy, depressed areas of flood plains between natural levees and valley sides or terraces.

Badland. Steep or very steep, commonly nonstony, barren land dissected by many intermittent drainage channels. Badland is most common in semiarid and arid regions where streams are entrenched in soft geologic material. Local relief generally ranges from 25 to 500 feet. Runoff potential is very high, and geologic erosion is active.

- Ballena.** A fan remnant having a distinctively-rounded surface of fan alluvium. The ballena's broadly rounded shoulders meet from either side to form a narrow summit and merge smoothly with concave, short pediments which form smoothly-rounded drainageways between adjacent ballenas. A partial ballena is a fan remnant large enough to retain some relict fan surface on a remnant summit.
- Barrier beach.** A wide gently sloping portion of a bolson floor comprising numerous, parallel, relict longshore-bars and lagoons built by a receding pluvial lake.
- Basal area.** The area of a cross section of a tree, generally referring to the section at breast height and measured outside the bark. It is a measure of stand density, commonly expressed in square feet.
- Base saturation.** The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, K), expressed as a percentage of the total cation-exchange capacity.
- Basin floor.** A general term for the nearly level, lower-most part of intermontane basins (i.e., bolson, semi-bolsos). The basin floor includes all of the alluvial, eolian, and erosional landforms below the piedmont slope.
- Beach terrace.** The relict shorelines from pluvial lakes, generally restricted to valley sides.
- Bedding planes.** Fine strata, less than 5 millimeters thick, in unconsolidated alluvial, eolian, lacustrine, or marine sediment.
- Bedding system.** A drainage system made by plowing, grading, or otherwise shaping the surface of a flat field. It consists of a series of low ridges separated by shallow, parallel dead furrows.
- Bedrock.** The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.
- Bedrock-controlled topography.** A landscape where the configuration and relief of the landforms are determined or strongly influenced by the underlying bedrock.
- Bench terrace.** A raised, level or nearly level strip of earth constructed on or nearly on a contour, supported by a barrier of rocks or similar material, and designed to make the soil suitable for tillage and to prevent accelerated erosion.
- Bisequum.** Two sequences of soil horizons, each of which consists of an illuvial horizon and the overlying eluvial horizons.
- Blowout.** A shallow depression from which all or most of the soil material has been removed by wind. A blowout has a flat or irregular floor formed by a resistant layer or by an accumulation of pebbles or cobbles. In some blowouts, the water table is exposed.
- Board foot.** A unit of measure of the wood in lumber, logs, or trees. The amount of wood in a board one foot wide, one foot long, and one inch thick before finishing.
- Bolson.** A landscape term for an internally drained intermontane basin into which drainages from surrounding mountains converge inward toward a central depression.
- Boulders.** Rock fragments larger than 2 feet (60 centimeters) in diameter.
- Breaks.** The steep and very steep broken land at the border of an upland summit that is dissected by ravines.
- Breast height.** An average height of 4.5 feet above the ground surface; the point on a tree where diameter measurements are ordinarily taken.
- Brush management.** Use of mechanical, chemical, or biological methods to make conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.
- Butte.** An isolated small mountain or hill with steep or precipitous sides and a top variously flat, rounded, or pointed that may be a residual mass isolated by erosion or an exposed volcanic neck.
- Calcareous soil.** A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.
- Caldera.** A large, more or less circular depression, formed by explosion and/or collapse, which surrounds a volcanic vent or vents, and whose diameter is much greater than that of the included vent, or vents.
- Caliche.** A more or less cemented deposit of calcium carbonate in soils of warm-temperate, subhumid to arid areas. Caliche occurs as soft, thin layers in the soil or as hard, thick beds directly beneath the solum, or it is exposed at the surface by erosion.
- California bearing ratio (CBR).** The load-supporting capacity of a soil as compared to that of a standard crushed limestone, expressed as a ratio. First standardized in California. A soil having a CBR of 16 supports 16 percent of the load that would be supported by standard crushed limestone, per unit area, with the same degree of distortion.
- Canopy.** The leafy crown of trees or shrubs. (See Crown.)

- Canyon.** A long, deep, narrow, very steep sided valley with high, precipitous walls in an area of high local relief.
- Capillary water.** Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.
- Catena.** A sequence, or "chain," of soils on a landscape that formed in similar kinds of parent material but have different characteristics as a result of differences in relief and drainage.
- Cation.** An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.
- Cation-exchange capacity.** The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.
- Channeled.** Refers to a drainage area in which natural meandering or repeated branching and convergence of a streambed have created deeply incised cuts, either active or abandoned, in alluvial material.
- Channery soil material.** Soil material that is, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a channer.
- Chemical treatment.** Control of unwanted vegetation through the use of chemicals.
- Chiseling.** Tillage with an implement having one or more soil-penetrating points that shatter or loosen hard, compacted layers to a depth below normal plow depth.
- Clay.** As a soil separate, the mineral soil particles less than 0.002 millimeter in diameter. As a soil textural class, soil material that is 40 percent or more clay, less than 45 percent sand, and less than 40 percent silt.
- Clay depletions.** Low-chroma zones having a low content of iron, manganese, and clay because of the chemical reduction of iron and manganese and the removal of iron, manganese, and clay. A type of redoximorphic depletion.
- Clayey soil.** Silty clay, sandy clay, or clay.
- Clay film.** A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.
- Claypan.** A slowly permeable soil horizon that contains much more clay than the horizons above it. A claypan is commonly hard when dry and plastic or stiff when wet.
- Clearcut.** A method of forest harvesting that removes the entire stand of trees in one cutting. Reproduction is achieved artificially or by natural seeding from adjacent stands.
- Climax plant community.** The stabilized plant community on a particular site. The plant cover reproduces itself and does not change so long as the environment remains the same.
- Closed depression.** A low area completely surrounded by higher ground and having no natural outlet.
- Coarse fragments.** Mineral or rock particles larger than 2 millimeters in diameter.
- Coarse textured soil.** Sand or loamy sand.
- Cobble (or cobblestone).** A rounded, partly rounded, or angular fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.
- Cobbly soil material.** Material that is 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material is 35 to 60 percent of these rock fragments, and extremely cobbly soil material is more than 60 percent.
- Codominant trees.** Trees whose crowns form the general level of the forest canopy and that receive full light from above but comparatively little from the sides.
- Colluvium.** Unconsolidated, unsorted earth material moved and deposited by mass movement on sideslopes and at the base of slopes.
- Commercial forest.** Forest land capable of producing 20 cubic feet or more per acre per year at the culmination of mean annual increment.
- Complex slope.** Irregular or variable slope. Planning or establishing terraces, diversions, and other water-control structures on a complex slope is difficult.
- Complex, soil.** A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.
- Compressible** (in tables). Excessive decrease in volume of soft soil under load.
- Concretions.** Cemented bodies with crude internal symmetry organized around a point, a line, or a plane that typically takes the form of concentric layers visible to the naked eye. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up concretions. If formed in place, concretions of iron oxide or manganese oxide are generally considered a type of redoximorphic concentration.
- Conglomerate.** A coarse grained, clastic rock composed of rounded to subangular rock fragments more than 2 millimeters in diameter. It commonly has a matrix of

sand and finer textured material. Conglomerate is the consolidated equivalent of gravel.

Conservation cropping system. Growing crops in combination with needed cultural and management practices. In a good conservation cropping system, the soil-improving crops and practices more than offset the soil-depleting crops and practices. Cropping systems are needed on all tilled soils. Soil-improving practices in a conservation cropping system include the use of rotations that contain grasses and legumes and the return of crop residue to the soil. Other practices include the use of green manure crops of grasses and legumes, proper tillage, adequate fertilization, and weed and pest control.

Conservation tillage. A tillage system that does not invert the soil and that leaves a protective amount of crop residue on the surface throughout the year.

Consistence, soil. Refers to the degree of cohesion and adhesion of soil material and its resistance to deformation when ruptured. Consistence includes resistance of soil material to rupture and to penetration; plasticity, toughness, and stickiness of puddled soil material; and the manner in which the soil material behaves when subject to compression. Terms describing consistence are defined in the "Soil Survey Manual."

Contour stripcropping. Growing crops in strips that follow the contour. Strips of grass or close-growing crops are alternated with strips of clean-tilled crops or summer fallow.

Control section. The part of the soil on which classification is based. The thickness varies among different kinds of soil, but, for many, it is that part of the soil profile between depths of 10 inches and 40 or 80 inches.

Coprogenous earth (sedimentary peat). Fecal material deposited in water by aquatic organisms.

Corrosion. Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.

Cover crop. A close-growing crop grown primarily to improve and protect the soil between periods of regular crop production, or a crop grown between trees and vines in orchards and vineyards.

Cropping system. Growing crops according to a planned system of rotation and management practices.

Crop residue management. Returning crop residue to the soil, which helps to maintain soil structure, organic matter content, and fertility and helps to control erosion.

Cross-slope farming. Deliberately conducting farming operations on sloping farmland in such a way that tillage is across the general slope.

Crown. The upper part of a tree or shrub, including the living branches and their foliage.

Cuesta. A hill or ridge that has a gentle slope on one side and a steep slope on the other; specifically, an asymmetric, homoclinal ridge capped by resistant rock layers of slight or moderate dip.

Culmination of the mean annual increment (CMAI).

The average annual increase per acre in the volume of a stand. Computed by dividing the total volume of the stand by its age. As the stand increases in age, the mean annual increment continues to increase until mortality begins to reduce the rate of increase. The point where the stand reaches its maximum annual rate of growth is called the culmination of the mean annual increment.

Cutbanks cave (in tables). The walls of excavations tend to cave in or slough.

Decreasers. The most heavily grazed climax range plants. Because they are the most palatable, they are the first to be destroyed by overgrazing.

Deep soil. A soil that is 40 to 60 inches deep over bedrock or to other material that restricts the penetration of plant roots.

Deferred grazing. Postponing grazing or resting grazing land for a prescribed period.

Delta. A body of alluvium having a surface that is nearly flat and fan shaped, deposited at or near the mouth of a river or stream where it enters a body of relatively quiet water, generally a sea or lake.

Dense layer (in tables). A very firm, massive layer that has a bulk density of more than 1.8 grams per cubic centimeter. Such a layer affects the ease of digging and can affect filling and compacting.

Depth, soil. Generally, the thickness of the soil over bedrock. Very deep soils are more than 60 inches deep over bedrock; deep soils, 40 to 60 inches; moderately deep, 20 to 40 inches; shallow, 10 to 20 inches; and very shallow, less than 10 inches.

Depth to rock (in tables). Bedrock is too near the surface for the specified use.

Desert pavement. On a desert surface, a layer of gravel or larger fragments that was emplaced by upward movement of the underlying sediments or that remains after finer particles have been removed by running water or the wind.

Dip slope. A slope of the land surface, roughly determined by and approximately conforming to the dip of the underlying bedrock.

Diversion (or diversion terrace). A ridge of earth, generally a terrace, built to protect downslope areas by diverting runoff from its natural course.

Divided-slope farming. A form of field stripcropping in which crops are grown in a systematic arrangement

of two strips, or bands, across the slope to reduce the hazard of water erosion. One strip is in a close-growing crop that provides protection from erosion, and the other strip is in a crop that provides less protection from erosion. This practice is used where slopes are not long enough to permit a full stripcropping pattern to be used.

Dominant trees. Trees whose crowns form the general level of the forest canopy and that receive full light from above and from the sides.

Drainage class (natural). Refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized: excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Drainage, surface. Runoff, or surface flow of water, from an area.

Drainageway. An area of ground at a lower elevation than the surrounding ground and in which water collects and is drained to a closed depression or lake or to a drainageway at a lower elevation. A drainageway may or may not have distinctly incised channels at its upper reaches or throughout its course.

Duff. A generally firm organic layer on the surface of mineral soils. It consists of fallen plant material that is in the process of decomposition and includes everything from the litter on the surface to underlying pure humus.

Dune. A mound, ridge, or hill of loose, windblown granular material (generally sand), either bare or covered with vegetation.

Ecological Site. A distinctive kind of rangeland or grazed forestland that has a unique historic potential native plant community. Ecological sites are the products of all the environmental factors that affect their development. An ecological site is capable of supporting a native plant community that has a unique kind and/or proportion of species or total vegetative production. Ecological sites in grazed forestland include both overstory and understory vegetation.

Effervescence. The quality of a soil measured when drops of diluted (1:10) hydrochloric acid (HCL) are added to the soil. The ratings are as follows:

- Very slightly effervescent few bubbles
- Slightly effervescent bubbles readily
- Strongly effervescent bubbles form low foam

Violently effervescent bubbles form thick foam quickly

Eluviation. The movement of material in true solution or colloidal suspension from one place to another within the soil. Soil horizons that have lost material through eluviation are eluvial; those that have received material are illuvial.

Endosaturation. A type of saturation of the soil in which all horizons between the upper boundary of saturation and a depth of 2 meters are saturated.

Eolian soil material. Earthy parent material accumulated through wind action; commonly refers to sandy material in dunes or to loess in blankets on the surface.

Ephemeral stream. A stream, or reach of a stream, that flows only in direct response to precipitation. It receives no long-continued supply from melting snow or other source, and its channel is above the water table at all times.

Episaturation. A type of saturation indicating a perched water table in a soil in which saturated layers are underlain by one or more unsaturated layers within 2 meters of the surface.

Erosion. The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep.

Erosion (geologic). Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.

Erosion (accelerated). Erosion much more rapid than geologic erosion, mainly as a result of human or animal activities or of a catastrophe in nature, such as a fire, that exposes the surface.

Erosion pavement. A layer of gravel or stones that remains on the surface after fine particles are removed by sheet or rill erosion.

Escarpment. A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Synonym: scarp.

Even aged. Refers to a stand of trees in which only small differences in age occur between the individuals. A range of 20 years is allowed.

Excess alkali (in tables). Excess exchangeable sodium in the soil. The resulting poor physical properties restrict the growth of plants.

Excess fines (in tables). Excess silt and clay in the soil. The soil does not provide a source of gravel or sand for construction purposes.

Excess lime (in tables). Excess carbonates in the soil that restrict the growth of some plants.

- Excess salts** (in tables). Excess water-soluble salts in the soil that restrict the growth of most plants.
- Excess sodium** (in tables). Excess exchangeable sodium in the soil. The resulting poor physical properties restrict the growth of plants.
- Excess sulfur** (in tables). Excessive amount of sulfur in the soil. The sulfur causes extreme acidity if the soil is drained, and the growth of most plants is restricted.
- Extrusive rock**. Igneous rock derived from deep-seated molten matter (magma) emplaced on the earth's surface.
- Fallow**. Cropland left idle in order to restore productivity through accumulation of moisture. Summer fallow is common in regions of limited rainfall where cereal grain is grown. The soil is tilled for at least one growing season for weed control and decomposition of plant residue.
- Fan apron**. A sheet-like mantle of relatively young alluvium covering part of an older fan piedmont surface. It somewhere buries a soil that can be traced to the edge of the fan apron.
- Fan piedmont**. The most extensive landform on piedmont slopes, formed by the coalescence of alluvial fans or accretions of fan aprons into one generally smooth slope.
- Fan remnant**. A general term for landforms that are remaining parts of older fan-landforms, that either have been dissected or partially buried.
- Fan skirt**. The zone of smooth, laterally-coalescing, small alluvial fans that issue from gullies cut into the fan piedmont or that are the coalescing extensions of inset fans of the fan piedmont, and that merge with the basin floor.
- Fast intake** (in tables). The rapid movement of water into the soil.
- Fertility, soil**. The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.
- Fibric soil material (peat)**. The least decomposed of all organic soil material. Peat contains a large amount of well preserved fiber that is readily identifiable according to botanical origin. Peat has the lowest bulk density and the highest water content at saturation of all organic soil material.
- Field moisture capacity**. The moisture content of a soil, expressed as a percentage of the oven-dry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called *normal field capacity*, *normal moisture capacity*, or *capillary capacity*.
- Fill slope**. A sloping surface consisting of excavated soil material from a road cut. It commonly is on the downhill side of the road.
- Fine textured soil**. Sandy clay, silty clay, or clay.
- Firebreak**. An area cleared of flammable material to stop or help control creeping or running fires. It also serves as a line from which to work and to facilitate the movement of fire fighters and equipment. Designated roads also serve as firebreaks.
- First bottom**. The normal flood plain of a stream, subject to frequent or occasional flooding.
- Flaggy soil material**. Material that is, by volume, 15 to 35 percent flagstones. Very flaggy soil material is 35 to 60 percent flagstones, and extremely flaggy soil material is more than 60 percent flagstones.
- Flagstone**. A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.
- Flood plain**. A nearly level alluvial plain that borders a stream and is subject to flooding unless protected artificially.
- Fluvial**. Of or pertaining to rivers; produced by river action, as a fluvial plain.
- Foothill**. A steeply sloping upland that has relief of as much as 1,000 feet (300 meters) and fringes a mountain range or high-plateau escarpment.
- Foot slope**. The inclined surface at the base of a hill.
- Forb**. Any herbaceous plant not a grass or a sedge.
- Forest cover**. All trees and other woody plants (underbrush) covering the ground in a forest.
- Fragile** (in tables). A soil that is easily damaged by use or disturbance.
- Frost action** (in tables). Freezing and thawing of soil moisture. Frost action can damage roads, buildings and other structures, and plant roots.
- Genesis, soil**. The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.
- Gilgai**. The microrelief of clayey soils that shrink and swell considerably with changes in moisture content. Usually manifested as a succession of microbasins and microknolls in nearly level areas or of microvalleys and microridges parallel with the slope.
- Gleyed soil**. Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.
- Graded stripcropping**. Growing crops in strips that grade toward a protected waterway.
- Grassed waterway**. A natural or constructed waterway, typically broad and shallow, seeded to grass as

- protection against erosion. Conducts surface water away from cropland.
- Gravel.** Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.
- Gravelly soil material.** Material that is 15 to 50 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.
- Green manure crop** (agronomy). A soil-improving crop grown to be plowed under in an early stage of maturity or soon after maturity.
- Ground water.** Water filling all the unblocked pores of underlying material below the water table.
- Gully.** A miniature valley with steep sides cut by running water and through which water ordinarily runs only after rainfall. The distinction between a gully and a rill is one of depth. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage; a rill is of lesser depth and can be smoothed over by ordinary tillage.
- Gypsum.** A mineral consisting of hydrous calcium sulfate.
- Hard bedrock.** Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.
- Hardpan.** A hardened or cemented soil horizon, or layer. The soil material is sandy, loamy, or clayey and is cemented by iron oxide, silica, calcium carbonate, or other substance.
- Heavy metal.** Inorganic substances that are solid at ordinary temperatures and are not soluble in water. They form oxides and hydroxides that are basic. Examples are copper, iron, cadmium, zinc, manganese, lead, and arsenic.
- Hemic soil material (mucky peat).** Organic soil material intermediate in degree of decomposition between the less decomposed fibric material and the more decomposed sapric material.
- High-residue crops.** Such crops as small grain and corn used for grain. If properly managed, residue from these crops can be used to control erosion until the next crop in the rotation is established. These crops return large amounts of organic matter to the soil.
- Hill.** A natural elevation of the land surface, rising as much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline; hillsides generally have slopes of more than 15 percent. The distinction between a hill and a mountain is arbitrary and is dependent on local usage.
- Holocene.** The epoch of the Quaternary Period of geologic time, extending from the end of the Pleistocene Epoch (about 10 to 12 thousand years ago) to the present.
- Horizon, soil.** A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. The major horizons of mineral soil are as follows:
O horizon.--An organic layer of fresh and decaying plant residue.
A horizon.--The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.
E horizon.--The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.
B horizon.--The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.
C horizon.--The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.
Cr horizon.--Soft, consolidated bedrock beneath the soil.
R layer.--Consolidated bedrock beneath the soil. The bedrock commonly underlies a C horizon, but it can be directly below an A or a B horizon.
- Humus.** The well decomposed, more or less stable part of the organic matter in mineral soils.
- Hydrologic soil groups.** Refers to soils grouped according to their runoff potential. The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties are depth to a seasonal high water table, the infiltration rate and permeability after prolonged wetting, and depth to a very slowly permeable layer. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.

Igneous rock. Rock formed by solidification from a molten or partially molten state. Major varieties include plutonic and volcanic rock. Examples are andesite, basalt, and granite.

Illuviation. The movement of soil material from one horizon to another in the soil profile. Generally, material is removed from an upper horizon and deposited in a lower horizon.

Impervious soil. A soil through which water, air, or roots penetrate slowly or not at all. No soil is absolutely impervious to air and water all the time.

Increasesers. Species in the climax vegetation that increase in amount as the more desirable plants are reduced by close grazing. Increasesers commonly are the shorter plants and less palatable to livestock.

Infiltration. The downward entry of water into the immediate surface of soil or other material, as contrasted with percolation, which is movement of water through soil layers or material.

Infiltration capacity. The maximum rate at which water can infiltrate into a soil under a given set of conditions.

Infiltration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.

Inset fan. A special case of the flood plain of an ephemeral stream that is confined between fan remnants, basin-floor remnants, ballenas, or closely opposed fan toeslopes.

Intake rate. The average rate of water entering the soil under irrigation. Most soils have a fast initial rate; the rate decreases with application time. Therefore, intake rate for design purposes is not a constant but is a variable depending on the net irrigation application. The rate of water intake, in inches per hour, is expressed as follows:

Less than 0.2	very low
0.2 to 0.4	low
0.4 to 0.75	moderately low
0.75 to 1.25	moderate
1.25 to 1.75	moderately high
1.75 to 2.5	high
More than 2.5	very high

Intermittent stream. A stream, or reach of a stream, that flows for prolonged periods only when it receives groundwater discharge or long, continued contributions from melting snow or other surface and shallow subsurface sources.

Intermontane basin. A generic term for wide structural depressions between mountain ranges that are partly

filled with alluvium. They may be drained internally (bolsons) or externally (semi-bolsons).

Invaders. On range, plants that encroach into an area and grow after the climax vegetation has been reduced by grazing. Generally, plants invade following disturbance of the surface.

Iron depletions. Low-chroma zones having a low content of iron and manganese oxide because of chemical reduction and removal, but having a clay content similar to that of the adjacent matrix. A type of redoximorphic depletion.

Irrigation. Application of water to soils to assist in production of crops. Methods of irrigation are:
Basin.--Water is applied rapidly to nearly level plains surrounded by levees or dikes.
Border.--Water is applied at the upper end of a strip in which the lateral flow of water is controlled by small earth ridges called border dikes or borders.
Controlled flooding.--Water is released at intervals from closely spaced field ditches and distributed uniformly over the field.
Corrugation.--Water is applied to small, closely spaced furrows or ditches in fields of close-growing crops or in orchards so that it flows in only one direction.
Drip (or trickle).--Water is applied slowly and under low pressure to the surface of the soil or into the soil through such applicators as emitters, porous tubing, or perforated pipe.
Furrow.--Water is applied in small ditches made by cultivation implements. Furrows are used for tree and row crops.
Sprinkler.--Water is sprayed over the soil surface through pipes or nozzles from a pressure system.
Subirrigation.--Water is applied in open ditches or tile lines until the water table is raised enough to wet the soil.
Wild flooding.--Water, released at high points, is allowed to flow onto an area without controlled distribution.

Lacustrine deposit. Material deposited in lake water and exposed when the water level is lowered or the elevation of the land is raised.

Lagoon. The nearly level, filled depression behind the longshore bar on a barrier beach.

Lake plain. A surface marking the floor of an extinct lake, filled in by well sorted, stratified sediments.

Lake terrace. The narrow shelf produced along a lake shore and later exposed when the water recedes.

Lamella. A thin, generally horizontal layer of fine material illuviated within a very much thicker, coarser, eluviated layer.

Landform. Any recognizable form or feature on the earth's surface, having a characteristic shape, and produced by natural causes that provide an empirical description of similar portions of the earth's surface.

Landscape. A collection of related, natural landforms.

Landslide. The rapid downhill movement of a mass of soil and loose rock, generally when wet or saturated. The speed and distance of movement, as well as the amount of soil and rock material, vary greatly.

Large stones (in tables). Rock fragments 3 inches (7.6 centimeters) or more across. Large stones adversely affect the specified use of the soil.

Leaching. The removal of soluble material from soil or other material by percolating water.

Liquid limit. The moisture content at which the soil passes from a plastic to a liquid state.

Loam. Soil material that is 7 to 27 percent clay particles, 28 to 50 percent silt particles, and less than 52 percent sand particles.

Loamy soil. Coarse sandy loam, sandy loam, fine sandy loam, very fine sandy loam, loam, silt loam, silt, clay loam, sandy clay loam, or silty clay loam.

Loess. Fine grained material, dominantly of silt-sized particles, deposited by wind.

Longshore bar. A narrow, elongate, coarse-textured ridge, built by the wave action of a pluvial lake, that extends parallel to the shore and separated it from a lagoon; both the bar and lagoon are now relict features.

Low-residue crops. Such crops as corn used for silage, peas, beans, and potatoes. Residue from these crops is not adequate to control erosion until the next crop in the rotation is established. These crops return little organic matter to the soil.

Low strength. The soil is not strong enough to support loads.

Marl. An earthy, unconsolidated deposit consisting chiefly of calcium carbonate mixed with clay in approximately equal amounts.

Masses. Concentrations of substances in the soil matrix that do not have a clearly defined boundary with the surrounding soil material and cannot be removed as a discrete unit. Common compounds making up masses are calcium carbonate, gypsum or other soluble salts, iron oxide, and manganese oxide. Masses consisting of iron oxide or manganese oxide generally are considered a type of redoximorphic concentration.

Mean annual increment (MAI). The average annual increase in volume of a tree during the entire life of the tree.

Mechanical treatment. Use of mechanical equipment for seeding, brush management, and other management practices.

Medium textured soil. Very fine sandy loam, loam, silt loam, or silt.

Merchantable trees. Trees that are of sufficient size to be economically processed into wood products.

Metamorphic rock. Rock of any origin altered in mineralogical composition, chemical composition, or structure by heat, pressure, and movement. Nearly all such rocks are crystalline.

Mineral soil. Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.

Minimum tillage. Only the tillage essential to crop production and prevention of soil damage.

Miscellaneous area. An area that has little or no natural soil and supports little or no vegetation.

Moderately coarse textured soil. Coarse sandy loam, sandy loam, or fine sandy loam.

Moderately deep soil. A soil that is 20 to 40 inches deep over bedrock or to other material that restricts the penetration of plant roots.

Moderately fine textured soil. Clay loam, sandy clay loam, or silty clay loam.

Mollic epipedon. A thick, dark, humus-rich surface horizon (or horizons) that has high base saturation and pedogenic soil structure. It may include the upper part of the subsoil.

Morphology, soil. The physical makeup of the soil, including the texture, structure, porosity, consistence, color, and other physical, mineral, and biological properties of the various horizons, and the thickness and arrangement of those horizons in the soil profile.

Mottling, soil. Irregular spots of different colors that vary in number and size. Descriptive terms are as follows: abundance--*few*, *common*, and *many*; size--*fine*, *medium*, and *coarse*; and contrast--*faint*, *distinct*, and *prominent*. The size measurements are of the diameter along the greatest dimension. *Fine* indicates less than 5 millimeters (about 0.2 inch); *medium*, from 5 to 15 millimeters (about 0.2 to 0.6 inch); and *coarse*, more than 15 millimeters (about 0.6 inch).

Mountain. A natural elevation of the land surface, rising more than 1,000 feet above surrounding lowlands, commonly of restricted summit area (relative to a plateau) and generally having steep sides. A mountain can occur as a single, isolated mass or in a group forming a chain or range.

Muck. Dark, finely divided, well decomposed organic soil material. (See Sapric soil material.)

Mudstone. Sedimentary rock formed by induration of silt and clay in approximately equal amounts.

Munsell notation. A designation of color by degrees of three simple variables--hue, value, and chroma. For

example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

Natric horizon. A special kind of argillic horizon that contains enough exchangeable sodium to have an adverse effect on the physical condition of the subsoil.

Neutral soil. A soil having a pH value between 6.6 and 7.3. (See Reaction, soil.)

Nodules. Cemented bodies lacking visible internal structure. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up nodules. If formed in place, nodules of iron oxide or manganese oxide are considered types of redoximorphic concentrations.

Nutrient, plant. Any element taken in by a plant essential to its growth. Plant nutrients are mainly nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, copper, boron, and zinc obtained from the soil and carbon, hydrogen, and oxygen obtained from the air and water.

Observed rooting depth. Depth to which roots have been observed to penetrate.

Organic matter. Plant and animal residue in the soil in various stages of decomposition.

Overstory. The trees in a forest that form the upper crown cover.

Oxbow. The horseshoe-shaped channel of a former meander, remaining after the stream formed a cutoff across a narrow meander neck.

Pan. A compact, dense layer in a soil that impedes the movement of water and the growth of roots. For example, *hardpan*, *fragipan*, *claypan*, *plowpan*, and *traffic pan*.

Parent material. The unconsolidated organic and mineral material in which soil forms.

Parna dune. An eolian dune built of sand size aggregates of clayey material that commonly occurs leeward of a playa.

Peat. Unconsolidated material, largely undecomposed organic matter, that has accumulated under excess moisture. (See Fibric soil material.)

Ped. An individual natural soil aggregate, such as a granule, a prism, or a block.

Pediment. A gently sloping erosional surface developed at the foot of a receding hill or mountain slope.

Pedimentation. A thin layer of alluvial material that mantles an erosion surface and has been transported to its present position from higher lying areas of the erosion surface.

Pedon. The smallest volume that can be called "a soil." A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10

square meters), depending on the variability of the soil.

Percolation. The downward movement of water through the soil.

Percolates slowly (in tables). The slow movement of water through the soil adversely affects the specified use.

Permeability. The quality of the soil that enables water or air to move downward through the profile. The rate at which a saturated soil transmits water is accepted as a measure of this quality. In soil physics, the rate is referred to as "saturated hydraulic conductivity," which is defined in the "Soil Survey Manual." In line with conventional usage in the engineering profession and with traditional usage in published soil surveys, this rate of flow continues to be expressed as "permeability." Terms describing permeability, measured in inches per hour, are as follows:

Extremely slow.....	0.00 to 0.01 inch
Very slow	0.01 to 0.06 inch
Slow.....	0.06 to 0.2 inch
Moderately slow	0.2 to 0.6 inch
Moderate.....	0.6 inch to 2.0 inches
Moderately rapid	2.0 to 6.0 inches
Rapid	6.0 to 20 inches
Very rapid	more than 20 inches

Phase, soil. A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and flooding.

pH value. A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.)

Piedmont slope. The dominant slope at the foot of a mountain. Main components of the piedmont slope include pediments, alluvial fans, fan piedmonts, fan skirts and inset fans.

Piping (in tables). Formation of subsurface tunnels or pipelike cavities by water moving through the soil.

Pitting (in tables). Pits caused by melting around ice. They form on the soil after plant cover is removed.

Plasticity index. The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.

Plastic limit. The moisture content at which a soil changes from semisolid to plastic.

Plateau. An extensive upland mass with relatively flat summit area that is considerably elevated (more than 100 meters) above adjacent lowlands and separated from them on one or more sides by escarpments.

Playa. The generally dry and nearly level lake plain that occupies the lowest parts of closed depressional areas, such as those on intermontane basin floors. Temporary flooding occurs primarily in response to precipitation and runoff.

Pleistocene. The epoch of the Quaternary Period of geologic time preceding the Holocene (from approximately 10 thousand to 2 million years ago).

Plowpan. A compacted layer formed in the soil directly below the plowed layer.

Pluvial. Relating to former periods of abundant rains.

Ponding. Standing water on soils in closed depressions. Unless the soils are artificially drained, the water can be removed only by percolation or evapotranspiration.

Poor filter (in tables). Because of rapid or very rapid permeability, the soil may not adequately filter effluent from a waste disposal system.

Poorly graded. Refers to a coarse grained soil or soil material consisting mainly of particles of nearly the same size. Because there is little difference in size of the particles, density can be increased only slightly by compaction.

Poor outlets (in tables). Refers to areas where surface or subsurface drainage outlets are difficult or expensive to install.

Potential native plant community. See Climax plant community.

Potential rooting depth (effective rooting depth). Depth to which roots could penetrate if the content of moisture in the soil were adequate. The soil has no properties restricting the penetration of roots to this depth.

Prescribed burning. Deliberately burning an area for specific management purposes, under the appropriate conditions of weather and soil moisture and at the proper time of day.

Productivity, soil. The capability of a soil for producing a specified plant or sequence of plants under specific management.

Profile, soil. A vertical section of the soil extending through all its horizons and into the parent material.

Proper grazing use. Grazing at an intensity that maintains enough cover to protect the soil and maintain or improve the quantity and quality of the desirable vegetation. This practice increases the vigor and reproduction capacity of the key plants and promotes the accumulation of litter and mulch necessary to conserve soil and water.

Quartzite, metamorphic. Rock consisting mainly of quartz that formed through recrystallization of quartz-rich sandstone or chert.

Quaternary. The period of geologic time, extending from about 2 million years ago to the present and comprising two epochs, the Pleistocene (Ice Age) and Holocene (Recent).

Quartzite, sedimentary. Very hard but unmetamorphosed sandstone consisting chiefly of quartz grains.

Range condition. The present composition of the plant community on a range site in relation to the potential natural plant community for that site. Range condition is expressed as excellent, good, fair, or poor on the basis of how much the present plant community has departed from the potential.

Rangeland. Land on which the potential natural vegetation is predominantly grasses, grasslike plants, forbs, or shrubs suitable for grazing or browsing. It includes natural grasslands, savannas, many wetlands, some deserts, tundras, and areas that support certain forb and shrub communities.

Range site. An area of rangeland where climate, soil, and relief are sufficiently uniform to produce a distinct natural plant community. A range site is the product of all the environmental factors responsible for its development. It is typified by an association of species that differ from those on other range sites in kind or proportion of species or total production.

Reaction, soil. A measure of acidity or alkalinity of a soil, expressed in pH values. A soil that tests to pH 7.0 is described as precisely neutral in reaction because it is neither acid nor alkaline. The degrees of acidity or alkalinity, expressed as pH values, are:

Ultra acid.....	less than 3.5
Extremely acid	3.5 to 4.4
Very strongly acid	4.5 to 5.0
Strongly acid	5.1 to 5.5
Moderately acid.....	5.6 to 6.0
Slightly acid.....	6.1 to 6.5
Neutral	6.6 to 7.3
Slightly alkaline	(mildly alkaline) 7.4 to 7.8
Moderately alkaline	7.9 to 8.4
Strongly alkaline.....	8.5 to 9.0
Very strongly alkaline.....	9.1 and higher

Redoximorphic concentrations. Nodules, concretions, soft masses, pore linings, and other features resulting from the accumulation of iron or manganese oxide. An indication of chemical reduction and oxidation resulting from saturation.

Redoximorphic depletions. Low-chroma zones from which iron and manganese oxide or a combination of iron and manganese oxide and clay has been removed. These zones are indications of the chemical reduction of iron resulting from saturation.

Redoximorphic features. Redoximorphic concentrations, redoximorphic depletions, reduced matrices, a positive reaction to alpha,alpha-dipyridyl, and other features indicating the chemical reduction and oxidation of iron and manganese compounds resulting from saturation.

Reduced matrix. A soil matrix that has low chroma in situ because of chemically reduced iron (Fe II). The chemical reduction results from nearly continuous

wetness. The matrix undergoes a change in hue or chroma within 30 minutes after exposure to air as the iron is oxidized (Fe III). A type of redoximorphic feature.

Regeneration. The new growth of a natural plant community, developing from seed.

Regolith. The unconsolidated mantle of weathered rock and soil material on the earth's surface; the loose earth material above the solid rock.

Relict stream terrace. One of a series of platforms in or adjacent to a stream valley that formed prior to the current stream system.

Relief. The elevations or inequalities of a land surface, considered collectively.

Residuum (residual soil material). Unconsolidated, weathered or partly weathered mineral material that accumulated as consolidated rock disintegrated in place.

Rill. A steep-sided channel resulting from accelerated erosion. A rill is generally a few inches deep and not wide enough to be an obstacle to farm machinery.

Riverwash. Unstable areas of sandy, silty, clayey, or gravelly sediments. These areas are flooded, washed, and reworked by rivers so frequently that they support little or no vegetation.

Road cut. A sloping surface produced by mechanical means during road construction. It is commonly on the uphill side of the road.

Rock fragments. Rock or mineral fragments having a diameter of 2 millimeters or more; for example, pebbles, cobbles, stones, and boulders.

Rock outcrop. Exposures of bare bedrock other than lava flows and rock-lined pits.

Rooting depth (in tables). Shallow root zone. The soil is shallow over a layer that greatly restricts roots.

Root zone. The part of the soil that can be penetrated by plant roots.

Rubble land. Areas that have more than 90 percent of the surface covered by stones or boulders. Voids contain no soil material and virtually no vegetation other than lichens. The areas commonly are at the base of mountain slopes, but some are on mountain slopes as deposits of cobbles, stones, and boulders left by Pleistocene glaciation or by periglacial phenomena.

Runoff. The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface runoff. Water that enters the soil before reaching surface streams is called groundwater runoff or seepage flow from ground water.

Saline soil. A soil containing soluble salts in an amount that impairs the growth of plants. A saline soil does not contain excess exchangeable sodium.

Salinity. The electrical conductivity of a saline soil. It is expressed, in millimhos per centimeter, as follows:

Nonsaline	0 to 2
Very slightly saline	2 to 4
Slightly saline	4 to 8
Moderately saline	8 to 16
Strongly saline	More than 16

Salty water (in tables). Water that is too salty for consumption by livestock.

Sand. As a soil separate, individual rock or mineral fragments from 0.05 millimeter to 2.0 millimeters in diameter. Most sand grains consist of quartz. As a soil textural class, a soil that is 85 percent or more sand and not more than 10 percent clay.

Sand sheet. A large, irregularly shaped, surficial mantle of eolian sand.

Sandstone. Sedimentary rock containing dominantly sand-sized particles.

Sandy soil. Sand or loamy sand.

Sapric soil material (muck). The most highly decomposed of all organic soil material. Muck has the least amount of plant fiber, the highest bulk density, and the lowest water content at saturation of all organic soil material.

Saprolite. Unconsolidated residual material underlying the soil and grading to hard bedrock below.

Saturation. Wetness characterized by zero or positive pressure of the soil water. Under conditions of saturation, the water will flow from the soil matrix into an unlined auger hole.

Sawlogs. Logs of suitable size and quality for the production of lumber.

Scarification. The act of abrading, scratching, loosening, crushing, or modifying the surface to increase water absorption or to provide a more tillable soil.

Scribner's log rule. A method of estimating the number of board feet that can be cut from a log of a given diameter and length.

Second bottom. The first terrace above the normal flood plain (or first bottom) of a river.

Sedimentary rock. Rock made up of particles deposited from suspension in water. The chief kinds of sedimentary rock are conglomerate, formed from gravel; sandstone, formed from sand; shale, formed from clay; and limestone, formed from soft masses of calcium carbonate. There are many intermediate types. Some wind-deposited sand is consolidated into sandstone.

Seepage (in tables). The movement of water through the soil. Seepage adversely affects the specified use.

Semi-bolson. An intermontane basin that is drained externally by an intermittent stream.

Sequum. A sequence consisting of an illuvial horizon and the overlying eluvial horizon. (See Eluviation.)

Series, soil. A group of soils that have profiles that are almost alike, except for differences in texture of the surface layer. All the soils of a series have horizons that are similar in composition, thickness, and arrangement.

Shale. Sedimentary rock formed by the hardening of a clay deposit.

Shallow soil. A soil that is 10 to 20 inches deep over bedrock or to other material that restricts the penetration of plant roots.

Sheet erosion. The removal of a fairly uniform layer of soil material from the land surface by the action of rainfall and surface runoff.

Shelterwood system. A forest management system requiring the removal of a stand in a series of cuts so that regeneration occurs under a partial canopy. After regeneration, a final cut removes the shelterwood and allows the stand to develop in the open as an even-aged stand. The system is well suited to sites where shelter is needed for regeneration, and it can aid regeneration of the more intolerant tree species in a stand.

Shoulder slope. The uppermost inclined surface at the top of a hillside. It is the transition zone from the back slope to the summit of a hill or mountain. The surface is dominantly convex in profile and erosional in origin.

Shrink-swell (in tables). The shrinking of soil when dry and the swelling when wet. Shrinking and swelling can damage roads, dams, building foundations, and other structures. It can also damage plant roots.

Shrub-coppice dune. A small dune that forms around shrubs or small trees.

Silica. A combination of silicon and oxygen. The mineral form is called quartz.

Silt. As a soil separate, individual mineral particles that range in diameter from the upper limit of clay (0.002 millimeter) to the lower limit of very fine sand (0.05 millimeter). As a soil textural class, soil that is 80 percent or more silt and less than 12 percent clay.

Siltstone. Sedimentary rock made up of dominantly silt-sized particles.

Similar soils. Soils that share limits of diagnostic criteria, behave and perform in a similar manner, and have similar conservation needs or management requirements for the major land uses in the survey area.

Sinkhole. A depression in the landscape where limestone has been dissolved.

Site class. A grouping of site indexes into five to seven production capability levels. Each level can be represented by a site curve.

Site curve (50-year). A set of related curves on a graph that shows the average height of dominant or dominant and co-dominant trees for the range of ages on soils that differ in productivity. Each level is represented by a curve. The basis of the curves is the height of dominant or dominant and co-dominant trees that are 50 years old or are 50 years old at breast height.

Site curve (100-year). A set of related curves on a graph that shows the average height of dominant or dominant and co-dominant trees for a range of ages on soils that differ in productivity. Each level is represented by a curve. The basis of the curves is the height of dominant or dominant and co-dominant trees that are 100 years old or are 100 years old at breast height.

Site index. A designation of the quality of a forest site based on the height of the dominant stand at an arbitrarily chosen age. For example, if the average height attained by dominant and co-dominant trees in a fully stocked stand at the age of 50 years is 75 feet, the site index is 75.

Skid trails. Pathways along which logs are dragged to a common site for loading onto a logging truck.

Slash. The branches, bark, treetops, reject logs, and broken or uprooted trees left on the ground after logging.

Slickens. Accumulations of fine-textured material, such as material separated in placer-mine and ore-mill operations. Slickens from ore mills commonly consist of freshly ground rock that has undergone chemical treatment during the milling process.

Slickensides. Polished and grooved surfaces produced by one mass sliding past another. In soils, slickensides may occur at the bases of slip surfaces on the steeper slopes; on faces of blocks, prisms, and columns; and in swelling clayey soils, where there is marked change in moisture content.

Slick spot. A small area of soil having a puddled, crusted, or smooth surface and an excess of exchangeable sodium. The soil generally is silty or clayey, is slippery when wet, and is low in productivity.

Slippage (in tables). Soil mass susceptible to movement downslope when loaded, excavated, or wet.

Slope. The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance. In this survey, the following slope classes are recognized:

Nearly level	0 to 2 percent
Gently sloping	2 to 4 percent
Moderately sloping.....	4 to 8 percent

Strongly sloping	8 to 15 percent
Moderately steep.....	15 to 30 percent
Steep	30 to 50 percent
Very steep.....	50 to 75 percent
Extremely steep	75 percent and higher

Slope (in tables). Slope is great enough that special practices are required to ensure satisfactory performance of the soil for a specific use.

Slow intake (in tables). The slow movement of water into the soil.

Slow refill (in tables). The slow filling of ponds, resulting from restricted permeability in the soil.

Small stones (in tables). Rock fragments less than 3 inches (7.6 centimeters) in diameter. Small stones adversely affect the specified use of the soil.

Sodic (alkali) soil. A soil having so high a degree of alkalinity (pH 8.5 or higher) or so high a percentage of exchangeable sodium (15 percent or more of the total exchangeable bases), or both, that plant growth is restricted.

Sodicity. The degree to which a soil is affected by exchangeable sodium. Sodicity is expressed as a sodium adsorption ratio (SAR) of a saturation extract, or the ratio of NA^+ to $Ca^{++} + Mg^{++}$. The degrees of sodicity and their respective ratios are:

Very slight.....	5-12:1
Slight.....	13-30:1
Moderate.....	31-45:1
Strong	46-90:1
Very strong.....	more than 90:1

Soft bedrock. Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.

Soil. A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief over periods of time.

Soil separates. Mineral particles less than 2 millimeters in equivalent diameter and ranging between specified size limits. The names and sizes, in millimeters, of separates recognized in the United States are as follows:

Very coarse sand.....	2.0 to 1.0
Coarse sand.....	1.0 to 0.5
Medium sand	0.5 to 0.25
Fine sand	0.25 to 0.10
Very fine sand.....	0.10 to 0.05
Silt.....	0.05 to 0.002
Clay.....	less than 0.002

Solum. The upper part of a soil profile, above the C horizon, in which the processes of soil formation are

active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.

Species. A single, distinct kind of plant or animal having certain distinguishing characteristics.

Stone line. A concentration of coarse fragments in a soil. Generally, it is indicative of an old weathered surface. In a cross section, the line may be one fragment or more thick. It generally overlies material that weathered in place and is overlain by recent sediment of variable thickness.

Stones. Rock fragments 10 to 24 inches (25 to 60 centimeters) in diameter if rounded or 15 to 24 inches (38 to 60 centimeters) in length if flat.

Stony. Refers to a soil containing stones in numbers that interfere with or prevent tillage.

Strath terrace. A surface cut formed by the erosion of hard or semi-consolidated bedrock and thinly mantled with stream deposits.

Stream channel. The hollow bed where a natural stream of surface water flows or may flow; the deepest or central part of the bed, formed by the main current and covered more or less continuously by water.

Stream terrace. One of a series of platforms in a stream valley, flanking and more or less parallel to the stream channel. It originally formed near the level of the stream and is the dissected remnants of an abandoned flood plain, streambed, or valley floor that were produced during a former stage of erosion or deposition.

Stripcropping. Growing crops in a systematic arrangement of strips or bands that provide vegetative barriers to soil blowing and water erosion.

Structure, soil. The arrangement of primary soil particles into compound particles or aggregates. The principal forms of soil structure are: *platy* (laminated), *prismatic* (vertical axis of aggregates longer than horizontal), *columnar* (prisms with rounded tops), *blocky* (angular or subangular), and *granular*. *Structureless* soils are either *single grain* (each grain by itself, as in dune sand) or *massive* (the particles adhering without any regular cleavage, as in many hardpans).

Stubble mulch. Stubble or other crop residue left on the soil or partly worked into the soil. It protects the soil from wind and water erosion after harvest, during preparation of a seedbed for the next crop, and during the early growing period of the new crop.

Subsoil. Technically, the B horizon; roughly, the part of the solum below plow depth.

Subsoiling. Tilling a soil below normal plow depth, ordinarily to shatter a hardpan or claypan.

Substratum. The part of the soil below the solum.

- Subsurface layer.** Any surface soil horizon (A, E, AB, or EB) below the surface layer.
- Summer fallow.** The tillage of uncropped land during the summer to control weeds and allow storage of moisture in the soil for the growth of a later crop. A practice common in semiarid regions, where annual precipitation is not enough to produce a crop every year. Summer fallow is frequently practiced before planting winter grain.
- Summit.** A general term for the top, or highest level, of an upland feature, such as a hill or mountain. It commonly refers to a higher area that has a gentle slope and is flanked by steeper slopes.
- Surface layer.** The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters). Frequently designated as the "plow layer" or the "Ap horizon."
- Surface soil.** The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.
- Tailwater.** The water directly downstream of a structure.
- Talus.** Fragments of rock and other soil material accumulated by gravity at the foot of cliffs or steep slopes.
- Taxadjuncts.** Soils that cannot be classified in a series recognized in the classification system. Such soils are named for a series they strongly resemble and are designated as taxadjuncts to that series because they differ in ways too small to be of consequence in interpreting their use and behavior. Soils are recognized as taxadjuncts only when one or more of their characteristics are slightly outside the range defined for the family of the series for which the soils are named.
- Terrace.** An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field is generally built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.
- Terrace (geologic).** A step-like surface, ordinarily flat or undulating, bordering a river, a lake, or the sea representing a former flood plain.
- Texture, soil.** The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are *sand*, *loamy sand*, *sandy loam*, *loam*, *silt loam*, *silt*, *sandy clay loam*, *clay loam*, *silty clay loam*, *sandy clay*, *silty clay*, and *clay*. The sand, loamy sand, and sandy loam classes may be further divided by specifying "coarse," "fine," or "very fine."
- Thin layer (in tables).** Otherwise suitable soil material too thin for the specified use.
- Till plain.** An extensive area of nearly level to undulating soils underlain by glacial till.
- Tilth, soil.** The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.
- Toe slope.** The outermost inclined surface at the base of a hill; part of a foot slope.
- Too arid (in tables).** The soil is dry most of the time, and vegetation is difficult to establish.
- Topsoil.** The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.
- Toxicity (in tables).** Excessive amount of toxic substances, such as sodium or sulfur, that severely hinder establishment of vegetation or severely restrict plant growth.
- Trace elements.** Chemical elements, for example, zinc, cobalt, manganese, copper, and iron, in soils in extremely small amounts. They are essential to plant growth.
- Trafficability.** The degree to which a soil is capable of supporting vehicular traffic across a wide range in soil moisture conditions.
- Tread.** The relatively flat terrace surface that was cut or built by stream or wave action.
- Tuff.** A compacted deposit that is 50 percent or more volcanic ash and dust.
- Understory.** Any plants in a forest community that grow to a height of less than 5 feet.
- Unstable fill (in tables).** Risk of caving or sloughing on banks of fill material.
- Upland (geology).** Land at a higher elevation, in general, than the alluvial plain or stream terrace; land above the lowlands along streams.
- Valley.** An elongated depressional area primarily developed by stream action.
- Valley fill.** In glaciated regions, material deposited in stream valleys by glacial meltwater. In nonglaciated regions, alluvium deposited by heavily loaded streams.
- Variation.** Refers to patterns of contrasting colors assumed to be inherited from the parent material rather than to be the result of poor drainage.
- Very deep soil.** A soil that is more than 60 inches deep over bedrock or to other material that restricts the penetration of plant roots.
- Very shallow soil.** A soil that is less than 10 inches deep over bedrock or to other material that restricts the penetration of plant roots.
- Water bars.** Smooth, shallow ditches or depressional areas that are excavated at an angle across a sloping road. They are used to reduce the downward velocity

of water and divert it off and away from the road surface. Water bars can easily be driven over if constructed properly.

Waterspreading. Diverting runoff from natural channels by means of a system of dams, dikes, or ditches and spreading it over relatively flat surfaces.

Water supplying capacity. The total amount of water available in the soil for plant growth in a normal year from precipitation and from runoff from higher areas. Runoff and water lost to deep percolation are not included.

Weathering. All physical and chemical changes produced in rocks or other deposits at or near the earth's

surface by atmospheric agents. These changes result in disintegration and decomposition of the material.

Well graded. Refers to soil material consisting of coarse grained particles that are well distributed over a wide range in size or diameter. Such soil normally can be easily increased in density and bearing properties by compaction. Contrasts with poorly graded soil.

Wilting point (or permanent wilting point). The moisture content of soil, on an oven-dry basis, at which a plant (specifically, a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.

Windthrow. The uprooting and tipping over of trees by the wind.

TABLES

TABLE 1.--TEMPERATURE AND PRECIPITATION
(Recorded in the periods 1961-90 at Wells, Nevada)

Month	Temperature (Degrees F.)						Precipitation (Inches)				
	Average daily maximum	Average daily minimum	Average daily	Maximum temperature higher than	2 years in 10 will have--		Average	2 years in 10 will have--		Average number of days with 0.01 inch or more	Average snow fall
					Minimum temperature less than	Average number of growing degree days*		less than	more than		
January	35.3	10.6	22.9	55	-21	2	0.78	0.30	1.19	2	9.1
February	40.1	16.2	28.2	59	-16	7	0.78	0.29	1.19	2	8.1
March	46.8	22.2	34.5	67	-5	31	0.95	0.43	1.40	3	8.8
April	56.5	27.2	41.9	77	8	123	0.94	0.39	1.40	3	5.0
May	66.3	34.4	50.4	86	15	332	1.21	0.45	1.84	3	2.0
June	77.0	41.8	59.4	95	25	581	1.10	0.24	1.76	3	0.1
July	87.3	47.8	67.5	97	33	853	0.50	0.16	0.80	1	0.0
August	84.9	45.7	65.3	96	28	784	0.60	0.14	1.00	1	0.0
September	74.9	36.6	55.7	90	16	475	0.91	0.26	1.61	2	0.1
October	62.6	27.3	45.0	81	6	196	0.80	0.24	1.31	2	1.4
November	46.3	20.6	33.5	68	-6	29	1.05	0.52	1.51	3	6.5
December	36.1	11.4	23.8	55	-21	3	0.99	0.23	1.59	3	11.3
Yearly :											
Average---	59.5	28.5	44.0	---	---	---	---	---	---	---	---
Extreme	98	-36	---	98	-25	---	---	---	---	---	---
Total	---	---	---	---	---	3,417	10.61	7.91	13.08	28	52.4

Average number of days per year with at least 1 inch of snow on the ground: 68

*A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (40 degrees F.)

TABLE 1.—TEMPERATURE AND PRECIPITATION

(Recorded in the period 1961-90 at Ruby Lake, Nevada)

Month	Temperature (Degrees F.)						Precipitation (Inches)				
	Average daily maximum	Average daily minimum	Average daily	2 years in 10 will have--		Average number of growing degree days*	Average	2 years in 10 will have--		Average number of days with 0.01 inch or more	Average snow fall
				Maximum temperature higher than	Minimum temperature less than			less than	more than		
January	39.4	14.1	26.7	59	-18	8	1.25	0.45	1.92	3	10.2
February	43.6	18.8	31.2	63	-11	17	1.18	0.41	1.81	3	8.0
March	49.0	24.6	36.8	68	1	56	1.29	0.58	1.90	3	6.7
April	57.5	30.6	44.1	77	15	165	1.10	0.57	1.56	3	2.5
May	67.3	38.2	52.8	86	22	401	1.35	0.41	2.11	3	1.3
June	78.0	45.4	61.7	94	29	626	0.95	0.26	1.56	2	0.0
July	87.3	51.9	69.6	97	39	880	0.56	0.15	0.96	1	0.0
August	85.3	49.6	67.5	96	34	807	0.81	0.19	1.34	2	0.0
September	75.9	40.9	58.4	90	22	535	0.88	0.26	1.49	2	0.2
October	64.9	31.7	48.3	82	12	272	1.07	0.36	1.65	2	1.0
November	49.2	23.8	36.5	69	0	56	1.41	0.78	2.06	4	3.8
December	40.0	15.4	27.7	58	-16	6	1.45	0.36	2.40	3	8.9
Yearly:											
Average	61.4	32.1	46.8	---	---	---	---	---	---	---	---
Extreme	102	-29	---	98	-21	---	---	---	---	---	---
Total	---	---	---	---	---	3,828	13.29	10.09	16.15	31	42.4

Average number of days per year with at least 1 inch of snow on the ground: 24

*A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (40 degrees F.)

TABLE 2.--FREEZE DATES IN SPRING AND FALL
(Recorded in the period 1961-90 at Wells, Nevada)

Probability	Temperature		
	24 degrees F. or lower	28 degrees F. or lower	32 degrees F. or lower
Last freezing temperature in spring:			
1 year in 10 later than--	June 6	June 20	July 8
2 years in 10 later than--	May 30	June 13	July 2
5 years in 10 later than--	May 16	May 29	June 19
First freezing temperature in fall:			
1 year in 10 earlier than--	September 4	August 23	August 11
2 years in 10 earlier than--	September 11	August 31	August 18
5 years in 10 earlier than--	September 24	September 14	August 29

TABLE 2.--FREEZE DATES IN SPRING AND FALL
(Recorded in the period 1961-90 at Ruby Lake, Nevada)

Probability	Temperature		
	24 degrees F. or lower	28 degrees F. or lower	32 degrees F. or lower
Last freezing temperature in spring:			
1 year in 10 later than--	May 8	June 9	June 20
2 years in 10 later than--	May 4	June 1	June 13
5 years in 10 later than--	April 27	May 16	June 1
First freezing temperature in fall:			
1 year in 10 earlier than--	September 19	September 12	August 28
2 years in 10 earlier than--	September 24	September 17	September 4
5 years in 10 earlier than--	October 4	September 28	September 16

TABLE 3.—GROWING SEASON

(Recorded in the period 1948-1993 at Wells, Nevada.)

Probability	Daily Minimum Temperature		
	Higher than 24 degrees F.	Higher than 28 degrees F.	Higher than 32 degrees F.
	<u>Days</u>	<u>Days</u>	<u>Days</u>
9 years in 10	94	68	35
8 years in 10	105	79	45
5 years in 10	125	100	65
2 years in 10	145	120	85
1 year in 10	156	131	96

TABLE 3.—GROWING SEASON

(Recorded in the period 1961-90 at Ruby Lake, Nevada)

Probability	Daily Minimum Temperature		
	Higher than 24 degrees F.	Higher than 28 degrees F.	Higher than 32 degrees F.
	<u>Days</u>	<u>Days</u>	<u>Days</u>
9 years in 10	140	104	80
8 years in 10	147	115	90
5 years in 10	159	134	109
2 years in 10	172	154	128
1 year in 10	179	164	138

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS

Map symbol	Soil name	Acres	percent
053	Palinor-Urmafot association-----	18,772	0.6
062	Amtoft-Rock outcrop association-----	8,927	0.3
066	Zimbob association-----	24,824	0.9
067	Tecomar-Tecomar, dry-Pookaloo association-----	54,669	1.9
069	Zimbob-Hyzen-Rock outcrop association-----	11,382	0.4
070	Stewval-Eastwell association-----	5,176	0.2
071	Stewval-Wesfil-Rock outcrop association-----	3,441	0.1
080	Stewval very gravelly fine sandy loam, 8 to 30 percent slopes-----	1,820	*
092	Wesfil-Wintermute-Okan association-----	7,112	0.2
098	Wesfil-Tarnach association-----	24,522	0.8
099	Wesfil-Armespan-Heist association-----	1,959	*
100	Benin-Mazuma association-----	4,313	0.1
101	Toano-Linoyer association-----	5,095	0.2
103	Benin-Playas association-----	12,985	0.4
111	Gravier-Armespan association-----	17,731	0.6
113	Gravier-Jericho association-----	8,919	0.3
116	Gravier-Izamatch-Loray association-----	19,827	0.7
118	Gravier-Automal-Zerk association-----	5,465	0.2
119	Wintermute-Linoyer association-----	8,919	0.3
120	Izamatch-Armespan-Cliffdown association-----	16,281	0.6
122	Gravier-Izamatch association-----	6,131	0.2
130	Tooele-Benin association-----	5,060	0.2
140	Gollaher-Belsac association-----	5,457	0.2
151	Hopeka-Amene-Rock outcrop association-----	3,408	0.1
154	Hopeka-Tecomar association-----	20,104	0.7
160	Saltair-Kawich association-----	5,036	0.2
161	Saltair-Playas association-----	10,609	0.4
171	Loray-Gravier-Toano association-----	11,540	0.4
173	Cliffdown-Armespan-Izamatch association-----	9,016	0.3
174	Wintermute-Linoyer-Okan association-----	4,044	0.1
175	Loray-Wintermute association-----	13,981	0.5
176	Zerk-Loray association-----	4,890	0.2
181	Peeko-Dewar association-----	3,134	0.1
182	Peeko-Gance association-----	4,071	0.1
183	Peeko-Enko-Izar association-----	7,921	0.3
185	Peeko-Chiara association-----	7,511	0.3
186	Palinor-Pharo-Hundraw association-----	12,124	0.4
187	Peeko-Izar association-----	6,688	0.2
188	Palinor-Automal-Izar association-----	7,999	0.3
192	Hutchley-Simon association-----	2,050	*
201	Tecomar-Hopeka-Rock outcrop association-----	3,633	0.1
203	Tecomar-Pookaloo-Pharo association-----	7,574	0.3
210	Mazuma-Hardhat-Loray association-----	4,460	0.2
211	Valmy-Enko association-----	3,294	0.1
230	Zafod-Pyrat-Palinor association-----	7,743	0.3
231	Dacker-Nevador-Kelk association-----	2,894	*
240	Hundraw-Cobre association-----	6,223	0.2
241	Hundraw-Peeko-Kzin association-----	7,869	0.3
242	Cobre-Hundraw-Chiara association-----	5,075	0.2
244	Hundraw-Shabliss-Palinor association-----	3,786	0.1
250	Izar-Holborn-Kzin association-----	5,438	0.2
251	Izar-Palinor-Shabliss association-----	5,531	0.2
252	Izar-Hundraw-Okan association-----	3,530	0.1
260	Dewar-Chiara-Hunnton association-----	12,591	0.4
270	Chiara-Kelk association-----	938	*
273	Chiara-Dewar-Enko association-----	15,723	0.5
276	Chiara-Peeko-Urmafot association-----	10,390	0.4
279	Chiara-Parisa-Enko association-----	1,623	*
280	Oupico-Enko association-----	3,490	0.1
282	Shabliss-Pyrat-Okan association-----	8,334	0.3
310	Sonoma-Devilsgait association-----	344	*
311	Sonoma-Kelk association-----	541	*
330	Kzin-Holborn association-----	2,309	*
331	Kzin-Cobre-Jackpot association-----	1,523	*

See footnote at end of table.

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS--Continued

Map symbol	Soil name	Acres	percent
333	Kzin-Holborn-Onkeyo association-----	500	*
340	Shuttle-Hardhat association-----	3,411	0.1
350	Jericho-Jericho, silt loam association-----	1,726	*
351	Shabliss-Okan-Eastwell association-----	16,139	0.6
355	Shabliss-Okan association-----	6,613	0.2
370	Toano-Tulase association-----	2,434	*
371	Linoyer-Okan association-----	11,649	0.4
373	Timpie-Piltown-Linoyer association-----	7,140	0.2
374	Heist-Okan-Zerk association-----	5,100	0.2
375	Toano-Heist association-----	9,441	0.3
380	Cobre-Izar-Jackpot association-----	5,309	0.2
381	Cobre-Hundraw-Jackpot association-----	300	*
382	Cobre-Enko association-----	4,399	0.2
390	Hardol-Muiral-Rubble land association-----	5,963	0.2
392	Hardol-Muiral-Onkeyo association-----	350	*
400	Cleavage-Sumine association-----	12,402	0.4
410	Jericho very gravelly loam, 2 to 8 percent slopes-----	10,178	0.4
411	Jericho-Armespan association-----	7,795	0.3
420	Palinor association-----	18,781	0.6
421	Palinor-Automal association-----	24,074	0.8
422	Palinor-Zimbob-Okan association-----	2,972	0.1
424	Palinor-Hundraw-Okan association-----	5,247	0.2
426	Palinor-Automal-Wintermute association-----	10,553	0.4
429	Palinor-Automal-Palinor, eroded association-----	16,308	0.6
430	Graley-Pioche-Cropper association-----	16,160	0.6
431	Graley-Chen-McIvey association-----	2,281	*
440	Lomocine-Bijorja association-----	4,568	0.2
460	Okan-Automal-Hundraw association-----	3,595	0.1
470	Rozara-Cucamungo-Rock outcrop association-----	1,335	*
471	Cucamungo-Hendap-Rock outcrop association-----	5,741	0.2
480	Shabliss-Palinor association-----	30,890	1.1
485	Shabliss-Parisa-Hunnton association-----	1,967	*
490	Wintermute-Automal association-----	49,598	1.7
492	Wintermute-Peeko-Hundraw association-----	14,843	0.5
494	Wintermute-Pyrat-Automal association-----	5,014	0.2
496	Sodhouse-Linoyer association-----	4,232	0.1
497	Sodhouse-Palinor association-----	4,453	0.2
501	Pharo-Izar-Okan association-----	2,587	*
503	Automal-Okan-Wintermute association-----	15,609	0.5
504	Automal-Wintermute association-----	11,071	0.4
510	Adobe-Hauchee-Hardzem association-----	5,469	0.2
511	Adobe-Wardbay-Hardol association-----	18,121	0.6
512	Adobe-Cavehill-Wardbay association-----	4,332	0.1
520	Hauchee-Muiral-Wardbay association-----	4,690	0.2
530	Wardbay-Adobe-Hauchee association-----	19,786	0.7
532	Onkeyo-Pookaloo-Tecomar association-----	11,114	0.4
540	Kunzler-Sycomat association-----	16,679	0.6
541	Kunzler-Sheffit association-----	7,702	0.3
550	Urmafot-Bobs-Urmafot, eroded association-----	19,593	0.7
551	Urmafot-Bobs association-----	11,175	0.4
552	Urmafot-Pharo association-----	5,412	0.2
554	Urmafot-Tecomar association-----	3,250	0.1
561	Palinor-Urmafot-Palinor, steep association-----	13,888	0.5
562	Bobs very gravelly loam, 2 to 8 percent slopes-----	8,555	0.3
563	Bobs-Pyrat association-----	2,574	*
575	Pookaloo-Cavehill-Rock outcrop association-----	122,192	4.2
576	Pookaloo-Tecomar-Onkeyo association-----	15,212	0.5
582	Sheffit-Katelana association-----	10,512	0.4
590	Upatad-Segura association-----	10,434	0.4
600	Onkeyo-Amene-Pookaloo association-----	9,244	0.3
610	Wintermute-Eastwell association-----	16,951	0.6
614	Wintermute-Eastwell-Zerk association-----	18,243	0.6
617	Wintermute-Zerk-Loray association-----	6,047	0.2
620	Atlow association-----	4,276	0.1

See footnote at end of table.

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS--Continued

Map symbol	Soil name	Acres	percent
631	Eastwell-Wintermute-Okan association-----	17,249	0.6
632	Eastwell-Zafod association-----	1,756	*
634	Eastwell-Shabliss-Izar association-----	4,894	0.2
636	Eastwell-Hundraw-Okan association-----	3,216	0.1
650	Mizpah-Zerk-Wintermute association-----	500	*
671	Idway-Mysol association-----	3,570	0.1
672	Idway-James Canyon, drained association-----	3,276	0.1
680	Simon-Graley-Chen association-----	5,622	0.2
691	Tarnach-Wesfil association-----	35,246	1.2
692	Tarnach-Upatad-Wesfil association-----	20,521	0.7
700	Shabliss-Tulase-Linoyer association-----	3,999	0.1
720	Mysol association-----	3,021	0.1
730	Idway-Kawich-Mysol association-----	7,543	0.3
733	Idway-Idway, moist-Mysol association-----	14,775	0.5
740	Upatad-Pioche-Tarnach association-----	4,318	0.1
760	Playas, 0 to 1 percent slopes-----	7,873	0.3
761	Umberland association-----	6,562	0.2
762	Umberland-Playas association-----	5,167	0.2
763	Equis-Umberland-Duffer association-----	5,428	0.2
764	Umberland-Rubylake-Orupa association-----	2,448	*
765	Umberland-Wendane association-----	10,986	0.4
767	Umberland-Orupa association-----	1,900	*
781	Mysol-Benin-Wendane association-----	2,733	*
800	Mazuma-Toano association-----	12,435	0.4
801	Mazuma-Zerk-Okan association-----	5,584	0.2
804	Mazuma-Kawich-Playas association-----	5,768	0.2
807	Mazuma-Kunzler-Zerk association-----	2,491	*
823	Kunzler-Pyrat-Blimo association-----	6,431	0.2
824	Kunzler-Katelana association-----	1,681	*
827	Kunzler-James Canyon association-----	6,846	0.2
828	Kunzler-Pyrat-Wendane association-----	2,484	*
830	Pharo-Kzin association-----	2,881	*
842	Katelana-Timpie association-----	10,297	0.4
843	Katelana-Kawich association-----	2,104	*
845	Katelana-Ragtown-Timpie association-----	36,903	1.3
847	Mazuma-Blimo-Wintermute association-----	2,990	0.1
850	Palinor-Wintermute-Okan association-----	4,332	0.1
851	Palinor-Zimbob-Tecomar association-----	7,558	0.3
852	Palinor-Pyrat-Shabliss association-----	5,404	0.2
854	Palinor-Automal-Shabliss association-----	9,800	0.3
856	Palinor-Parisa association-----	10,939	0.4
857	Palinor-Shabliss-Linoyer association-----	10,554	0.4
858	Palinor-Automal-Linoyer association-----	3,762	0.1
870	Theriot-Zimbob association-----	6,461	0.2
880	Duffer, drained-Duffer-Kolda association-----	10,489	0.4
881	Duffer-Kunzler association-----	15,774	0.5
882	Duffer-Kolda association-----	3,242	0.1
894	Zerk-Threesee-Mazuma association-----	5,793	0.2
900	Zerk-Automal-Linoyer association-----	5,954	0.2
910	Ragtown association-----	11,675	0.4
912	Katelana association-----	78,929	2.7
914	Katelana-Benin-Sheffit association-----	5,210	0.2
917	Katelana-Sheffit-Ragtown association-----	55,246	1.9
918	Katelana-Zorravista-Playas association-----	17,199	0.6
930	Okan-Toano-Loray association-----	2,387	*
932	Okan-Pyrat association-----	2,957	0.1
941	Sheffit-Zorravista association-----	9,106	0.3
943	Sheffit-Umberland association-----	12,902	0.4
960	Gravier-Zerk association-----	4,047	0.1
961	Gravier-Piltdown-Zerk association-----	4,887	0.2
972	Zimbob-Pookaloo association-----	13,663	0.5
974	Zimbob-Tecomar-Pookaloo association-----	10,104	0.3
975	Tecomar-Zimbob association-----	28,837	1.0
980	Onkeyo-Pookaloo-Zimbob association-----	8,054	0.3

See footnote at end of table.

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS--Continued

Map symbol	Soil name	Acres	percent
990	Hyzen-Zimbob association-----	1,845	*
991	Hyzen-Cavehill-Tecomar association-----	13,850	0.5
1000	Pyrat-Zerk association-----	7,102	0.2
1001	Pyrat-Okan-Eastwell association-----	7,019	0.2
1002	Threesee-Kunzler association-----	7,834	0.3
1003	Pyrat-Hundraw-Tulase association-----	1,945	*
1004	Pyrat-Parisa-Tulase association-----	5,539	0.2
1005	Pyrat-Zerk-Parisa association-----	2,518	*
1006	Pyrat-Blimo association-----	6,045	0.2
1007	Pyrat-Parisa-Automal association-----	4,589	0.2
1009	Pyrat-Tulase-Wintermute association-----	3,141	0.1
1020	Okan-Eastwell-Blimo association-----	5,486	0.2
1023	Okan-Katelana association-----	3,056	0.1
1030	Segura-Bullump-Hutchley association-----	5,117	0.2
1040	Segura-Pioche-Chen association-----	3,652	0.1
1061	Pioche-Cucamungo-Rock outcrop association-----	3,552	0.1
1070	Zafod-Automal-Okan association-----	8,975	0.3
1080	Cotant-Segura association-----	1,503	*
1111	Parisa gravelly loam, 2 to 8 percent slopes-----	11,420	0.4
1120	Okan-Automal association-----	8,018	0.3
1150	Adobe-Wardbay-Haunchee association-----	13,495	0.5
1161	Pharo-Bobs-Pookaloo association-----	9,514	0.3
1171	Pyrat-Automal-Gravier association-----	8,798	0.3
1172	Pyrat-Automal, very stony-Automal association-----	1,596	*
1173	Pyrat-Automal association-----	1,620	*
1174	Pyrat-Tosser association-----	1,300	*
1180	Haunchee-Cavehill association-----	6,360	0.2
1181	Haunchee-Halacan-Wardbay association-----	26,138	0.9
1190	Upatad-Atlow association-----	14,515	0.5
1191	Upatad-Pioche-Rock outcrop association-----	3,750	0.1
1200	Hardol-Hardzem-Rock outcrop association-----	8,833	0.3
1201	Hardol-Rock outcrop-Wardbay association-----	3,912	0.1
1210	Blimo-Kunzler-Linoyer association-----	17,087	0.6
1213	Blimo-Threesee association-----	13,289	0.5
1215	Blimo-Zorravista association-----	3,803	0.1
1216	Blimo-Idway-Mazuma association-----	8,316	0.3
1220	Onkeyo-Adobe-Pookaloo association-----	5,576	0.2
1230	Hardzem-Haunchee-Wardbay association-----	9,169	0.3
1240	Benin association-----	7,161	0.2
1241	Benin, moist-Playas-Benin association-----	7,298	0.3
1250	Tecomar-Pookaloo association-----	10,655	0.4
1270	Katelana-Sheffit association-----	12,465	0.4
1271	Uvada-Ragtown association-----	34,620	1.2
1272	Katelana, cool-Kawich association-----	4,327	0.1
1280	Sycomat-Kunzler association-----	10,245	0.4
1281	Sycomat-Mazuma association-----	5,385	0.2
1290	Heist-Blimo association-----	12,366	0.4
1300	Cavehill-Haunchee-Hardzem association-----	4,106	0.1
1360	Toba-Appian association-----	3,046	0.1
1370	Orupa-Playas-Boofuss association-----	6,192	0.2
1380	Hulderman-Toba-Benin association-----	3,092	0.1
1390	Wendane-Mysol-Toba association-----	8,053	0.3
1410	Threesee-Tosser association-----	11,974	0.4
1411	Threesee-Linoyer-Okan association-----	4,657	0.2
1412	Threesee-Idway association-----	6,236	0.2
1413	Idway-Zorravista-Kunzler association-----	4,964	0.2
1414	Threesee-Shantown-Kunzler association-----	5,911	0.2
1430	Pookaloo-Tecomar-Rock outcrop association-----	27,220	0.9
1440	Boofuss-Equis association-----	1,255	*
1441	Boofuss-Wendane-Umberland association-----	1,204	*
1450	Piltown-Kawich association-----	7,295	0.3
1460	Tosser-Threesee association-----	11,786	0.4
1471	Timpie-Kunzler-Threesee association-----	6,438	0.2
1480	Tulase-Linoyer association-----	6,343	0.2

See footnote at end of table.

TABLE 4.--ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS--Continued

Map symbol	Soil name	Acres	percent
1500	Tooele-Loray association-----	13,542	0.5
1510	Izamatch-Cliffdown association-----	15,149	0.5
1520	Izamatch-Luning association-----	29,435	1.0
1521	Izamatch-Theriot association-----	10,949	0.4
1522	Izamatch-Smaug-Badland association-----	2,708	*
1530	Theriot-Izamatch association-----	9,341	0.3
1531	Theriot-Izamatch-Rock outcrop association-----	3,726	0.1
1532	Theriot-Rock outcrop association-----	4,375	0.2
1540	Amtoft-Kyler association-----	27,185	0.9
1541	Kyler-Rock outcrop association-----	16,960	0.6
1542	Kyler-Amtoft-Jericho association-----	10,037	0.3
1550	Jericho association-----	6,606	0.2
1560	Toano-Timpie association-----	2,201	*
1570	Jericho-Xeric Torriorthents association-----	5,237	0.2
1580	Armespan-Jericho association-----	15,185	0.5
1581	Armespan-Kyler-Heist association-----	6,309	0.2
1582	Armespan-Xeric Torriorthents association-----	3,097	0.1
1590	Luning-Loray association-----	4,606	0.2
1591	Luning-Izamatch-Badland association-----	6,650	0.2
1600	Eaglepass-Amtoft association-----	2,746	*
1610	Xeric Torriorthents-Armespan-Badlands association-----	4,639	0.2
1620	Kolda-Duffer-Sonoma association-----	1,650	*
1621	Kolda-Rubylake association-----	5,454	0.2
1622	Kolda silt loam, 0 to 1 percent slopes-----	2,880	*
1623	Kolda-Water association-----	2,311	*
1630	Pookaloo-Cavehill, cool-Rock outcrop association-----	17,059	0.6
1631	Pookaloo-Tecomar-Wardbay association-----	5,685	0.2
1640	Jungo association-----	8,271	0.3
1650	Shantown-Zorravista association-----	3,107	0.1
1651	Shantown association-----	3,024	0.1
1660	Wendane-Logan association-----	9,177	0.3
1670	Wendane-Logan-Wendane, occasionally flooded association-----	12,092	0.4
1680	Rubylake-Kolda-Wendane association-----	3,346	0.1
1681	Wendane-Logan-Umberland association-----	6,872	0.2
1690	Krenka-Secrepass association-----	2,964	0.1
1700	Heechee-Rubicity association-----	6,979	0.2
1702	Heechee-McIvey-Rubicity association-----	6,113	0.2
1710	James Canyon-Wendane association-----	3,486	0.1
1711	James Canyon-Wendane-Wendane, occasionally flooded association-----	4,252	0.1
1720	Welch loam, 0 to 4 percent slopes-----	4,676	0.2
1721	Welch-Welsum complex-----	12,072	0.4
1722	Welch-Slipback association-----	4,296	0.1
1723	Welch association-----	2,559	*
1730	McIvey-Donna association-----	12,412	0.4
1731	McIvey-Chen-Donna association-----	4,994	0.2
1732	McIvey-Stampede-Heechee association-----	683	*
1740	Slipback-Welch association-----	5,844	0.2
1741	Slipback-Shantown-Toba association-----	5,550	0.2
1750	Heechee-Welch association-----	1,532	*
1760	Lykal-Wendane-James Canyon association-----	3,688	0.1
1770	Donna-McIvey-Heechee association-----	8,040	0.3
1780	Schoer-Welch association-----	7,507	0.3
1790	Donna-Krenka-McIvey association-----	2,459	*
1800	Chen-Graley-Rock outcrop association-----	4,395	0.2
1810	Sumine-Tusel-Haggood association-----	187	*
1820	Hussa-Halleck-Welsum association-----	2,517	*
1831	Enko-Kelk association-----	2,345	*
1840	Amene-Belsac-Chen association-----	1,676	*
1850	Bullump-Cleavage-Rock outcrop association-----	3,201	0.1
1861	Equis-Devilsgait association-----	2,196	*
1862	Equis-Kolda association-----	732	*
1870	Denied access-----	11,094	0.4
1880	Water-----	2,500	*
	Total-----	2,808,842	96.8

* Less than 0.1 percent.

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE

(Yields are those that can be expected under a high level of irrigated management by component. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0053:				
Palinor-----	---	---	---	---
Urmafot-----	---	---	---	---
0062:				
Amtoft-----	---	---	---	---
Rock Outcrop---	---	---	---	---
Amtoft-----	---	---	---	---
0066:				
Zimbob-----	---	---	---	---
Zimbob-----	---	---	---	---
0067:				
Tecomar-----	---	---	---	---
Tecomar-----	---	---	---	---
Pookaloo-----	---	---	---	---
0069:				
Zimbob-----	---	---	---	---
Hyzen-----	---	---	---	---
Rock Outcrop---	---	---	---	---
0070:				
Stewval-----	---	---	---	---
Eastwell-----	---	---	---	---
0071:				
Stewval-----	---	---	---	---
Wesfil-----	---	---	---	---
Rock Outcrop---	---	---	---	---
0080:				
Stewval-----	---	---	---	---
0092:				
Wesfil-----	---	---	---	---
Wintermute-----	---	---	---	---
Okan-----	---	---	---	---
0098:				
Wesfil-----	---	---	---	---
Tarnach-----	---	---	---	---
Wesfil-----	---	---	---	---
0099:				
Wesfil-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Armespan-----	---	---	---	---
Heist-----	---	---	---	---
0100:				
Benin-----	4s	---	---	---
Mazuma-----	2e	---	---	---
0101:				
Toano-----	---	---	---	---
Linoyer-----	2e	6.0	12.0	---
0103:				
Benin-----	4s	---	---	---
Playas-----	---	---	---	---
0111:				
Gravier-----	4e	---	---	---
Armespan-----	---	---	---	---
0113:				
Gravier-----	4e	---	---	---
Gravier-----	4e	---	---	---
Jericho-----	---	---	---	---
0116:				
Gravier-----	---	---	---	---
Izamatch-----	---	---	---	---
Loray-----	---	---	---	---
0118:				
Gravier-----	4e	---	---	---
Automal-----	---	---	---	---
Zerk-----	4e	---	---	---
0119:				
Wintermute-----	---	---	---	---
Linoyer-----	4e	5.5	11.0	---
0120:				
Izamatch-----	---	---	---	---
Armespan-----	---	---	---	---
Cliffdown-----	---	---	---	---
0122:				
Gravier-----	4e	---	---	---
Izamatch-----	---	---	---	---
0130:				
Tocole-----	---	---	---	---
Benin-----	4s	---	---	---
0140:				
Gollaher-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Belsac-----	---	---	---	---
0151: Hopeka-----	---	---	---	---
Amene-----	---	---	---	---
Rock Outcrop---	---	---	---	---
0154: Hopeka-----	---	---	---	---
Tecomar-----	---	---	---	---
0160: Saltair-----	---	---	---	---
Kawich-----	4s	---	---	---
0161: Saltair-----	---	---	---	---
Playas-----	---	---	---	---
0171: Loray-----	---	---	---	---
Gravier-----	---	---	---	---
Toano-----	---	---	---	---
0173: Cliffdown-----	---	---	---	---
Armespan-----	---	---	---	---
Izamatch-----	---	---	---	---
0174: Wintermute-----	---	---	---	---
Linoyer-----	3e	5.5	11.0	---
Okan-----	---	---	---	---
0175: Loray-----	---	---	---	---
Wintermute-----	---	---	---	---
0176: Loray-----	---	---	---	---
Zerk-----	4e	---	---	---
Zerk-----	4e	---	---	---
0181: Peeko-----	---	---	---	---
Dewar-----	---	---	---	---
Peeko-----	---	---	---	---
0182: Peeko-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Peeko-----	---	---	---	---
Gance-----	---	---	---	---
0183: Peeko-----	---	---	---	---
Enko-----	4e	---	---	---
Izar-----	---	---	---	---
0185: Peeko-----	---	---	---	---
Chiara-----	---	---	---	---
0186: Palinor-----	---	---	---	---
Pharo-----	---	---	---	---
Hundraw-----	---	---	---	---
0187: Peeko-----	---	---	---	---
Izar-----	---	---	---	---
Izar-----	---	---	---	---
0188: Palinor-----	---	---	---	---
Automal-----	---	---	---	---
Izar-----	---	---	---	---
0192: Hutchley-----	---	---	---	---
Simon-----	---	---	---	---
0201: Tecomar-----	---	---	---	---
Hopeka-----	---	---	---	---
Rock Outcrop---	---	---	---	---
0203: Tecomar-----	---	---	---	---
Pookaloo-----	---	---	---	---
Pharo-----	---	---	---	---
0210: Mazuma-----	2e	---	---	---
Hardhat-----	---	---	---	---
Loray-----	---	---	---	---
0211: Valmy-----	---	---	---	---
Enko-----	2e	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0230: Zafod-----	---	---	---	---
Fyrat-----	---	---	---	---
Palinor-----	---	---	---	---
0231: Dacker-----	3e	---	---	---
Nevador-----	---	---	---	---
Kelk-----	---	---	---	---
0240: Hundraw-----	---	---	---	---
Cobre-----	---	---	---	---
0241: Hundraw-----	---	---	---	---
Peeko-----	---	---	---	---
Kzin-----	---	---	---	---
0242: Cobre-----	---	---	---	---
Hundraw-----	---	---	---	---
Chiara-----	---	---	---	---
0244: Hundraw-----	---	---	---	---
Shabliss-----	---	---	---	---
Palinor-----	---	---	---	---
0250: Izar-----	---	---	---	---
Holborn-----	---	---	---	---
Kzin-----	---	---	---	---
0251: Izar-----	---	---	---	---
Palinor-----	---	---	---	---
Shabliss-----	---	---	---	---
0252: Izar-----	---	---	---	---
Hundraw-----	---	---	---	---
Okan-----	---	---	---	---
0260: Dewar-----	---	---	---	---
Chiara-----	---	---	---	---
Hunnton-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0270:				
Chiara-----	---	---	---	---
Kelk-----	---	---	---	---
Kelk-----	2s	6.2	14.0	62.0
0273:				
Chiara-----	---	---	---	---
Dewar-----	---	---	---	---
Enko-----	3e	---	---	---
0276:				
Chiara-----	---	---	---	---
Peeko-----	---	---	---	---
Urmafot-----	---	---	---	---
0279:				
Chiara-----	---	---	---	---
Parisa-----	---	---	---	---
Enko-----	2e	---	---	---
0280:				
Oupico-----	4e	---	---	---
Enko-----	3e	---	---	---
0282:				
Shabliss-----	---	---	---	---
Pyrat-----	---	---	---	---
Okan-----	---	---	---	---
0310:				
Sonoma-----	3w	---	---	---
Devilsgait-----	5w	---	---	---
Sonoma-----	3w	---	---	---
0311:				
Sonoma-----	2w	---	---	---
Kelk-----	2s	6.2	14.0	62.0
0330:				
Kzin-----	---	---	---	---
Holborn-----	---	---	---	---
Kzin-----	---	---	---	---
0331:				
Kzin-----	---	---	---	---
Cobre-----	---	---	---	---
Jackpot-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0333: Kzin-----	---	---	---	---
Holborn-----	---	---	---	---
Onkeyo-----	---	---	---	---
0340: Shuttle-----	4e	---	---	---
Hardhat-----	---	---	---	---
Shuttle-----	4e	---	---	---
0350: Jericho-----	---	---	---	---
Jericho-----	---	---	---	---
0351: Shabliss-----	---	---	---	---
Okan-----	---	---	---	---
Eastwell-----	---	---	---	---
0355: Shabliss-----	---	---	---	---
Okan-----	---	---	---	---
Okan-----	---	---	---	---
0370: Toano-----	---	---	---	---
Tulase-----	2c	6.4	14.0	63.0
0371: Linoyer-----	3e	5.5	11.0	---
Okan-----	---	---	---	---
0373: Timpie-----	4s	6.0	7.0	---
Piltown-----	---	---	---	---
Linoyer-----	2e	6.0	12.0	---
0374: Heist-----	---	---	---	---
Okan-----	---	---	---	---
Zerk-----	4e	---	---	---
0375: Toano-----	---	---	---	---
Heist-----	---	---	---	---
0380: Cobre-----	---	---	---	---
Izar-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Jackpot-----	---	---	---	---
0381: Cobre-----	---	---	---	---
Hundraw-----	---	---	---	---
Jackpot-----	---	---	---	---
0382: Cobre-----	---	---	---	---
Enko-----	3e	---	---	---
0390: Hardol-----	---	---	---	---
Muiral-----	---	---	---	---
Rubble Land----	---	---	---	---
0392: Hardol-----	---	---	---	---
Muiral-----	---	---	---	---
Onkeyo-----	---	---	---	---
0400: Cleavage-----	---	---	---	---
Cleavage-----	---	---	---	---
Sumine-----	---	---	---	---
410: Jericho-----	---	---	---	---
411: Jericho-----	---	---	---	---
Armespan-----	---	---	---	---
0420: Palinor-----	---	---	---	---
Palinor-----	---	---	---	---
0421: Palinor-----	---	---	---	---
Automal-----	---	---	---	---
0422: Palinor-----	---	---	---	---
Zimbob-----	---	---	---	---
Okan-----	---	---	---	---
0424: Palinor-----	---	---	---	---
Hundraw-----	---	---	---	---
Okan-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0426:				
Palinor-----	---	---	---	---
Automal-----	---	---	---	---
Wintermute-----	---	---	---	---
0429:				
Palinor-----	---	---	---	---
Automal-----	---	---	---	---
Palinor-----	---	---	---	---
0430:				
Graley-----	---	---	---	---
Ploche-----	---	---	---	---
Cropper-----	---	---	---	---
0431:				
Graley-----	---	---	---	---
Chen-----	---	---	---	---
McIvey-----	---	---	---	---
0440:				
Lomoinc-----	---	---	---	---
Bijorja-----	---	---	---	---
Lomoinc-----	---	---	---	---
0460:				
Okan-----	---	---	---	---
Automal-----	---	---	---	---
Hundraw-----	---	---	---	---
0470:				
Rozara-----	---	---	---	---
Cucamungo-----	---	---	---	---
Rock Outcrop----	---	---	---	---
0471:				
Cucamungo-----	---	---	---	---
Hendap-----	---	---	---	---
Rock Outcrop----	---	---	---	---
0480:				
Shabliss-----	---	---	---	---
Palinor-----	---	---	---	---
0485:				
Shabliss-----	---	---	---	---
Parisa-----	---	---	---	---
Hunnton-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0490:				
Wintermute-----	---	---	---	---
Automal-----	---	---	---	---
0492:				
Wintermute-----	---	---	---	---
Peeko-----	---	---	---	---
Hundraw-----	---	---	---	---
0494:				
Wintermute-----	---	---	---	---
Pyrat-----	---	---	---	---
Automal-----	---	---	---	---
0496:				
Sodhouse-----	---	---	---	---
Sodhouse-----	---	---	---	---
Linoyer-----	---	---	---	---
0497:				
Sodhouse-----	---	---	---	---
Sodhouse-----	---	---	---	---
Palinor-----	---	---	---	---
0501:				
Pharo-----	---	---	---	---
Izar-----	---	---	---	---
Okan-----	---	---	---	---
0503:				
Automal-----	---	---	---	---
Okan-----	---	---	---	---
Wintermute-----	---	---	---	---
0504:				
Automal-----	---	---	---	---
Wintermute-----	---	---	---	---
0510:				
Adobe-----	---	---	---	---
Hardzem-----	---	---	---	---
Haunchee-----	---	---	---	---
0511:				
Adobe-----	---	---	---	---
Wardbay-----	---	---	---	---
Hardol-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0512:				
Adobe-----	---	---	---	---
Cavehill-----	---	---	---	---
Wardbay-----	---	---	---	---
0520:				
Haunchee-----	---	---	---	---
Muiral-----	---	---	---	---
Wardbay-----	---	---	---	---
0530:				
Wardbay-----	---	---	---	---
Adobe-----	---	---	---	---
Haunchee-----	---	---	---	---
0532:				
Onkeyo-----	---	---	---	---
Pookaloo-----	---	---	---	---
Tecomar-----	---	---	---	---
0540:				
Kunzler-----	2e	4.0	---	---
Sycomat-----	---	---	---	---
0541:				
Kunzler-----	2e	4.0	---	---
Sheffit-----	---	---	---	---
0550:				
Urmafot-----	---	---	---	---
Bobs-----	---	---	---	---
Urmafot-----	---	---	---	---
0551:				
Urmafot-----	---	---	---	---
Bobs-----	---	---	---	---
552:				
Urmafot-----	---	---	---	---
Pharo-----	---	---	---	---
0554:				
Urmafot-----	---	---	---	---
Tecomar-----	---	---	---	---
Urmafot-----	---	---	---	---
0561:				
Palinor-----	---	---	---	---
Urmafot-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Palinor-----	---	---	---	---
0562: Bobs-----	---	---	---	---
0563: Bobs-----	---	---	---	---
Pyrat-----	---	---	---	---
0575: Pookaloo-----	---	---	---	---
Cavehill-----	---	---	---	---
Rock Outcrop---	---	---	---	---
0576: Pookaloo-----	---	---	---	---
Tecomar-----	---	---	---	---
Onkeyo-----	---	---	---	---
0582: Sheffit-----	---	---	---	---
Sheffit-----	---	---	---	---
Katelana-----	---	---	---	---
0590: Upatad-----	---	---	---	---
Segura-----	---	---	---	---
0600: Onkeyo-----	---	---	---	---
Amene-----	---	---	---	---
Pookaloo-----	---	---	---	---
0610: Wintermute-----	---	---	---	---
Eastwell-----	---	---	---	---
0614: Wintermute-----	---	---	---	---
Eastwell-----	---	---	---	---
Zerk-----	---	---	---	---
0617: Wintermute-----	---	---	---	---
Zerk-----	---	---	---	---
Loray-----	---	---	---	---
0620: Atlow-----	---	---	---	---
Atlow-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0631:				
Eastwell-----	---	---	---	---
Wintermute-----	---	---	---	---
Okan-----	---	---	---	---
0632:				
Eastwell-----	---	---	---	---
Zafod-----	---	---	---	---
0634:				
Eastwell-----	---	---	---	---
Shabliss-----	---	---	---	---
Izar-----	---	---	---	---
0636:				
Eastwell-----	---	---	---	---
Hundraw-----	---	---	---	---
Okan-----	---	---	---	---
0650:				
Mizpah-----	---	---	---	---
Zerk-----	4e	---	---	---
Wintermute-----	---	---	---	---
0671:				
Idway-----	---	---	---	---
Mysol-----	---	---	---	---
0672:				
Idway-----	---	---	---	---
James Canyon----	2w	---	9.0	---
0680:				
Simon-----	---	---	---	---
Graley-----	---	---	---	---
Chen-----	---	---	---	---
0691:				
Tarnach-----	---	---	---	---
Tarnach-----	---	---	---	---
Wesfil-----	---	---	---	---
0692:				
Tarnach-----	---	---	---	---
Upatad-----	---	---	---	---
Wesfil-----	---	---	---	---
0700:				
Shabliss-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
		Tons	AUM	Bu
Tulase-----	3e	6.2	14.0	62.0
Linoyer-----	4e	5.5	11.0	---
0720:				
Mysol-----	---	---	---	---
Mysol-----	---	---	---	---
0730:				
Idway-----	---	---	---	---
Kawich-----	---	---	---	---
Mysol-----	---	---	---	---
0733:				
Idway-----	---	---	---	---
Idway-----	---	---	---	---
Mysol-----	---	---	---	---
0740:				
Upatad-----	---	---	---	---
Picche-----	---	---	---	---
Tarnach-----	---	---	---	---
0760:				
Playas-----	---	---	---	---
0761:				
Umberland-----	---	---	---	---
Umberland-----	---	---	---	---
0762:				
Umberland-----	---	---	---	---
Playas-----	---	---	---	---
0763:				
Equis-----	---	---	---	---
Umberland-----	---	---	---	---
Duffer-----	4w	---	---	---
0764:				
Umberland-----	---	---	---	---
Rubylake-----	5w	---	---	---
Orupa-----	3e	---	---	---
0765:				
Umberland-----	---	---	---	---
Umberland-----	---	---	---	---
Wendane-----	6w	---	---	---
0767:				
Umberland-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Umberland-----	---	---	---	---
Orupa-----	3e	---	---	---
0781:				
Mysol-----	---	---	---	---
Benin-----	4s	---	---	---
Wendane-----	6w	---	---	---
0800:				
Mazuma-----	2c	---	---	---
Toano-----	---	---	---	---
0801:				
Mazuma-----	2e	---	---	---
Zerk-----	4s	---	---	---
Okan-----	---	---	---	---
0804:				
Mazuma-----	2e	---	---	---
Kawich-----	---	---	---	---
Playas-----	---	---	---	---
0807:				
Mazuma-----	2c	---	---	---
Kunzler-----	2c	4.0	---	---
Zerk-----	4s	---	---	---
0823:				
Kunzler-----	2e	4.0	---	---
Pyrat-----	---	---	---	---
Blimo-----	---	---	---	---
0824:				
Kunzler-----	2c	4.0	---	---
Katelana-----	---	---	---	---
0827:				
Kunzler-----	2c	4.0	---	---
James Canyon----	3w	---	9.0	---
James Canyon----	2w	---	---	---
0828:				
Kunzler-----	2e	4.0	---	---
Pyrat-----	---	---	---	---
Wendane-----	6w	---	---	---
0830:				
Pharo-----	---	---	---	---
Kzin-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Pharo-----	---	---	---	---
0842: Katelana-----	---	---	---	---
Timpie-----	4s	6.0	7.0	---
0843: Katelana-----	---	---	---	---
Kawich-----	4s	---	---	---
0845: Katelana-----	---	---	---	---
Ragtown-----	---	---	---	---
Timpie-----	4s	6.0	7.0	---
0847: Mazuma-----	2c	---	---	---
Blimo-----	---	---	---	---
Wintermute-----	---	---	---	---
0850: Palinor-----	---	---	---	---
Wintermute-----	---	---	---	---
Okan-----	---	---	---	---
0851: Palinor-----	---	---	---	---
Zimbob-----	---	---	---	---
Tecomar-----	---	---	---	---
0852: Palinor-----	---	---	---	---
Pyrat-----	---	---	---	---
Shabliss-----	---	---	---	---
0854: Palinor-----	---	---	---	---
Automal-----	---	---	---	---
Shabliss-----	---	---	---	---
0856: Palinor-----	---	---	---	---
Parisa-----	---	---	---	---
0857: Palinor-----	---	---	---	---
Shabliss-----	---	---	---	---
Lincyer-----	2e	6.0	12.0	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0858: Palinor-----	---	---	---	---
Automal-----	---	---	---	---
Linoyer-----	2e	6.0	12.0	---
0870: Theriot-----	---	---	---	---
Zimbob-----	---	---	---	---
0880: Duffer-----	4w	---	---	---
Duffer-----	4w	---	---	---
Kolda-----	6w	---	10.0	---
0881: Duffer-----	4w	---	---	---
Kunzler-----	2e	4.0	---	---
0882: Duffer-----	4w	---	---	---
Kolda-----	6w	---	10.0	---
0894: Zerk-----	4e	---	---	---
Threesee-----	---	---	---	---
Mazuma-----	2c	---	---	---
0900: Zerk-----	---	---	---	---
Automal-----	---	---	---	---
Linoyer-----	2e	6.0	12.0	---
0910: Ragtown-----	---	---	---	---
Ragtown-----	---	---	---	---
0912: Katelana-----	---	---	---	---
Katelana-----	---	---	---	---
0914: Katelana-----	---	---	---	---
Benin-----	4s	---	---	---
Sheffit-----	---	---	---	---
0917: Katelana-----	---	---	---	---
Sheffit-----	---	---	---	---
Ragtown-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
0918: Katelana-----	---	---	---	---
Zorravista-----	---	---	---	---
Playas-----	---	---	---	---
0930: Okan-----	---	---	---	---
Toano-----	---	---	---	---
Loray-----	---	---	---	---
0932: Okan-----	---	---	---	---
Pyrat-----	---	---	---	---
0941: Sheffit-----	---	---	---	---
Sheffit-----	---	---	---	---
Zorravista-----	---	---	---	---
0943: Sheffit-----	---	---	---	---
Umberland-----	---	---	---	---
0960: Gravier-----	4e	---	---	---
Zerk-----	4e	---	---	---
0961: Gravier-----	---	---	---	---
Piltown-----	---	---	---	---
Zerk-----	4s	---	---	---
0972: Zimbob-----	---	---	---	---
Zimbob-----	---	---	---	---
Pookaloo-----	---	---	---	---
0974: Zimbob-----	---	---	---	---
Tecomar-----	---	---	---	---
Pookaloo-----	---	---	---	---
0975: Zimbob-----	---	---	---	---
Tecomar-----	---	---	---	---
Tecomar-----	---	---	---	---
0980: Onkeyo-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Pookaloo-----	---	---	---	---
Zimbob-----	---	---	---	---
0990:				
Hyzen-----	---	---	---	---
Zimbob-----	---	---	---	---
0991:				
Hyzen-----	---	---	---	---
Cavehill-----	---	---	---	---
Tecomar-----	---	---	---	---
1000:				
Pyrat-----	---	---	---	---
Zerk-----	4e	---	---	---
1001:				
Pyrat-----	---	---	---	---
Okan-----	---	---	---	---
Eastwell-----	---	---	---	---
1002:				
Threesee-----	---	---	---	---
Kunzler-----	2e	4.0	---	---
Threesee-----	---	---	---	---
1003:				
Pyrat-----	---	---	---	---
Hundraw-----	---	---	---	---
Tulase-----	3e	6.2	14.0	62.0
1004:				
Pyrat-----	---	---	---	---
Parisa-----	---	---	---	---
Tulase-----	2e	6.4	14.0	63.0
1005:				
Pyrat-----	---	---	---	---
Zerk-----	---	---	---	---
Parisa-----	---	---	---	---
1006:				
Pyrat-----	---	---	---	---
Blimo-----	---	---	---	---
1007:				
Pyrat-----	---	---	---	---
Parisa-----	---	---	---	---
Automal-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
1009: Pyrat-----	---	---	---	---
Tulase-----	3e	6.2	14.0	62.0
Wintermute-----	---	---	---	---
1020: Okan-----	---	---	---	---
Eastwell-----	---	---	---	---
Blimo-----	---	---	---	---
1023: Okan-----	---	---	---	---
Okan-----	---	---	---	---
Katelana-----	---	---	---	---
1030: Segura-----	---	---	---	---
Bullump-----	---	---	---	---
Hutchley-----	---	---	---	---
1040: Segura-----	---	---	---	---
Pioche-----	---	---	---	---
Chen-----	---	---	---	---
1061: Pioche-----	---	---	---	---
Cucamungo-----	---	---	---	---
Rock Outcrop----	---	---	---	---
1070: Zafod-----	---	---	---	---
Automal-----	---	---	---	---
Okan-----	---	---	---	---
1080: Cotant-----	---	---	---	---
Segura-----	---	---	---	---
1111: Parisa-----	---	---	---	---
1120: Okan-----	---	---	---	---
Automal-----	---	---	---	---
1150: Adobe-----	---	---	---	---
Wardbay-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Haunchee-----	---	---	---	---
1161: Pharo-----	---	---	---	---
Bobs-----	---	---	---	---
Pookaloo-----	---	---	---	---
1171: Pyrat-----	---	---	---	---
Automal-----	---	---	---	---
Gravier-----	4e	---	---	---
1172: Pyrat-----	---	---	---	---
Automal-----	---	---	---	---
Automal-----	---	---	---	---
1173: Pyrat-----	---	---	---	---
Automal-----	---	---	---	---
1174: Pyrat-----	---	---	---	---
Tosser-----	---	---	---	---
1180: Haunchee-----	---	---	---	---
Cavehill-----	---	---	---	---
1181: Haunchee-----	---	---	---	---
Halacan-----	---	---	---	---
Wardbay-----	---	---	---	---
1190: Upatad-----	---	---	---	---
Atlow-----	---	---	---	---
Upatad-----	---	---	---	---
1191: Upatad-----	---	---	---	---
Pioche-----	---	---	---	---
Rock Outcrop---	---	---	---	---
1200: Hardol-----	---	---	---	---
Hardzem-----	---	---	---	---
Rock Outcrop---	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
1201: Hardol-----	---	---	---	---
Rock Outcrop----	---	---	---	---
Wardbay-----	---	---	---	---
1210: Blimo-----	---	---	---	---
Kunzler-----	2c	4.0	---	---
Linoyer-----	3e	5.5	11.0	---
1213: Blimo-----	---	---	---	---
Threesee-----	---	---	---	---
1215: Blimo-----	---	---	---	---
Zorravista-----	---	---	---	---
1216: Blimo-----	---	---	---	---
Idway-----	---	---	---	---
Mazuma-----	2c	---	---	---
1220: Onkeyo-----	---	---	---	---
Adobe-----	---	---	---	---
Pookaloo-----	---	---	---	---
1230: Hardzem-----	---	---	---	---
Haunchee-----	---	---	---	---
Wardbay-----	---	---	---	---
1240: Benin-----	4s	---	---	---
Benin-----	4s	---	---	---
1241: Benin-----	4s	---	---	---
Playas-----	---	---	---	---
Benin-----	4s	---	---	---
1250: Tecomar-----	---	---	---	---
Pookaloo-----	---	---	---	---
1270: Katelana-----	---	---	---	---
Sheffit-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
1271: Uvada-----	---	---	---	---
Ragtown-----	---	---	---	---
1272: Katelana-----	---	---	---	---
Kawich-----	4s	---	---	---
1280: Sycomat-----	---	---	---	---
Kunzler-----	2e	4.0	---	---
1281: Sycomat-----	---	---	---	---
Mazuma-----	2c	---	---	---
1290: Heist-----	---	---	---	---
Blimo-----	---	---	---	---
1300: Cavehill-----	---	---	---	---
Haunchee-----	---	---	---	---
Hardzem-----	---	---	---	---
1360: Toba-----	5w	---	---	---
Appian-----	3s	---	---	---
1370: Orupa-----	2c	---	---	---
Playas-----	---	---	---	---
Boofuss-----	---	---	---	---
1380: Hulderman-----	---	---	---	---
Toba-----	5w	---	---	---
Benin-----	4s	---	---	---
1390: Wendane-----	6w	---	---	---
Mysol-----	---	---	---	---
Toba-----	5w	---	---	---
1410: Threesee-----	---	---	---	---
Tosser-----	---	---	---	---
1411: Threesee-----	---	---	---	---
Linoyer-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Okan-----	---	---	---	---
1412:				
Threesee-----	---	---	---	---
Idway-----	---	---	---	---
1413:				
Idway-----	---	---	---	---
Zorravista-----	---	---	---	---
Kunzler-----	2c	4.0	---	---
1414:				
Threesee-----	---	---	---	---
Shantown-----	6s	---	---	---
Kunzler-----	2e	4.0	---	---
1430:				
Pookaloo-----	---	---	---	---
Tecomar-----	---	---	---	---
Rock Outcrop----	---	---	---	---
1440:				
Boofuss-----	---	---	---	---
Boofuss-----	---	---	---	---
Equis-----	---	---	---	---
1441:				
Boofuss-----	---	---	---	---
Wendane-----	6w	---	---	---
Umberland-----	---	---	---	---
1450:				
Piltown-----	---	---	---	---
Kawich-----	4s	---	---	---
1460:				
Tosser-----	---	---	---	---
Threesee-----	---	---	---	---
1471:				
Timpie-----	4s	6.0	7.0	---
Kunzler-----	2c	4.0	---	---
Threesee-----	---	---	---	---
1480:				
Tulase-----	2e	6.4	14.0	63.0
Linoyer-----	3e	5.5	11.0	---
1500:				
Tocele-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Loray-----	---	---	---	---
1510:				
Izamatch-----	---	---	---	---
Cliffdown-----	---	---	---	---
1520:				
Izamatch-----	---	---	---	---
Izamatch-----	---	---	---	---
Luning-----	4s	---	---	---
1521:				
Izamatch-----	---	---	---	---
Izamatch-----	---	---	---	---
Theriot-----	---	---	---	---
1522:				
Izamatch-----	---	---	---	---
Smaug-----	---	---	---	---
Badland-----	---	---	---	---
1530:				
Theriot-----	---	---	---	---
Theriot-----	---	---	---	---
Izamatch-----	---	---	---	---
1531:				
Theriot-----	---	---	---	---
Izamatch-----	---	---	---	---
Rock Outcrop---	---	---	---	---
1532:				
Theriot-----	---	---	---	---
Theriot-----	---	---	---	---
Rock Outcrop---	---	---	---	---
1540:				
Kyler-----	---	---	---	---
Amtoft-----	---	---	---	---
Amtoft-----	---	---	---	---
1541:				
Kyler-----	---	---	---	---
Kyler-----	---	---	---	---
Rock Outcrop---	---	---	---	---
1542:				
Kyler-----	---	---	---	---
Amtoft-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Jericho-----	---	---	---	---
1550:				
Jericho-----	---	---	---	---
Jericho-----	---	---	---	---
1560:				
Toano-----	---	---	---	---
Timpie-----	4s	6.0	7.0	---
1570:				
Jericho-----	---	---	---	---
Xeric Torriorthents--	---	---	---	---
1580:				
Armespan-----	---	---	---	---
Jericho-----	---	---	---	---
1581:				
Armespan-----	---	---	---	---
Kyler-----	---	---	---	---
Heist-----	---	---	---	---
1582:				
Armespan-----	---	---	---	---
Xeric Torriorthents--	---	---	---	---
1590:				
Luning-----	---	---	---	---
Luning-----	4s	---	---	---
Loray-----	---	---	---	---
1591:				
Luning-----	---	---	---	---
Izamatch-----	---	---	---	---
Badland-----	---	---	---	---
1600:				
Eaglepass-----	---	---	---	---
Amtoft-----	---	---	---	---
1610:				
Xeric Torriorthents--	---	---	---	---
Armespan-----	---	---	---	---
Badland-----	---	---	---	---
1620:				
Kolda-----	---	---	---	---
Duffer-----	4w	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Sonoma-----	3w	---	---	---
1621: Kolda-----	---	---	---	---
Rubylake-----	---	---	---	---
Kolda-----	---	---	---	---
1622: Kolda-----	---	---	---	---
1623: Kolda-----	---	---	---	---
Water-----	---	---	---	---
1630: Pockaloo-----	---	---	---	---
Cavehill-----	---	---	---	---
Rock Outcrop---	---	---	---	---
1631: Pockaloo-----	---	---	---	---
Tecomar-----	---	---	---	---
Wardbay-----	---	---	---	---
1640: Jungo-----	---	---	---	---
Jungo-----	---	---	---	---
1650: Shantown-----	6e	---	---	---
Zorravista-----	---	---	---	---
1651: Shantown-----	6e	---	---	---
Shantown-----	6e	---	---	---
1660: Wendane-----	6w	---	---	---
Logan-----	5w	---	---	---
1670: Wendane-----	6w	---	---	---
Logan-----	5w	---	---	---
Wendane-----	6w	---	---	---
1680: Rubylake-----	---	---	---	---
Kolda-----	---	---	---	---
Wendane-----	6w	---	---	---
1681: Wendane-----	6w	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
Logan-----	5w	---	---	---
Umberland-----	---	---	---	---
1690:				
Krenka-----	4e	---	---	---
Secrepass-----	4e	---	---	---
1700:				
Heechee-----	4s	---	---	---
Rubicity-----	4e	---	---	---
Heechee-----	---	---	---	---
1702:				
Heechee-----	4s	---	---	---
McIvey-----	---	---	---	---
Rubicity-----	3e	---	---	---
1710:				
James Canyon----	3w	---	---	---
Wendane-----	6w	---	---	---
1711:				
James Canyon----	3w	---	---	---
Wendane-----	6w	---	---	---
Wendane-----	6w	---	---	---
1720:				
Welch-----	---	---	---	---
1721:				
Welch-----	---	---	---	---
Welsum-----	5w	---	---	---
1722:				
Welch-----	3w	---	---	---
Slipback-----	---	---	---	---
Welch-----	5w	---	5.0	---
1723:				
Welch-----	---	---	---	---
Welch-----	---	---	---	---
1730:				
McIvey-----	---	---	---	---
Donna-----	---	---	---	---
1731:				
McIvey-----	---	---	---	---
Chen-----	---	---	---	---
Donna-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
1732: McIvey-----	---	---	---	---
Stampede-----	4e	---	---	---
Heechee-----	4s	---	---	---
1740: Slipback-----	---	---	---	---
Welch-----	3w	---	---	---
1741: Slipback-----	---	---	---	---
Shantown-----	6s	---	---	---
Toba-----	5w	---	---	---
1750: Heechee-----	4e	---	---	---
Welch-----	---	---	---	---
Welch-----	---	---	---	---
1760: Lykal-----	---	---	---	---
Wendane-----	6w	---	---	---
James Canyon----	3w	---	---	---
1770: Donna-----	---	---	---	---
McIvey-----	---	---	---	---
Heechee-----	---	---	---	---
1780: Schoer-----	3e	---	---	---
Welch-----	---	---	---	---
1790: Donna-----	---	---	---	---
Krenka-----	---	---	---	---
McIvey-----	---	---	---	---
1800: Chen-----	---	---	---	---
Graley-----	---	---	---	---
Rock Outcrop----	---	---	---	---
1810: Sumine-----	---	---	---	---
Tusel-----	---	---	---	---
Haggood-----	---	---	---	---

TABLE 5.--LAND CAPABILITY AND YIELDS PER ACRE OF CROPS AND PASTURE--Continued

Map symbol and soil name	Land Capability	Alfalfa hay	Pasture	Wheat
			AUM	
1820: Hussa-----	5w	---	5.0	---
Halleck-----	5w	---	---	---
Welsum-----	5w	---	---	---
1831: Enko-----	3e	---	---	---
Kelk-----	---	---	---	---
Enko-----	2s	---	---	---
1840: Amene-----	---	---	---	---
Belsac-----	---	---	---	---
Chen-----	---	---	---	---
1850: Bullump-----	---	---	---	---
Cleavage-----	---	---	---	---
Rock Outcrop---	---	---	---	---
1861: Equis-----	---	---	---	---
Devilsgait-----	5w	---	---	---
1862: Equis-----	---	---	---	---
Equis-----	---	---	---	---
Kolda-----	6w	---	10.0	---
1870: Denied Access---	---	---	---	---
1880: Water-----	---	---	---	---

TABLE 6--SUITABILITY FOR RANGELAND SEEDING

Soil name and map symbol	Limitation rating	Restrictive features
053:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Urmafot-----	Poorly suited-----	Droughty, small stones.
062:		
Amtoft-----	Poorly suited-----	Too arid, droughty, small stones.
Rock Outcrop-----	Not rated-----	
Amtoft-----	Poorly suited-----	Too arid, droughty, small stones.
066:		
Zimbob-----	Poorly suited-----	Droughty, small stones.
Zimbob-----	Poorly suited-----	Too arid, droughty, small stones.
067:		
Tecomar-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
Pockaloo-----	Poorly suited-----	Droughty, small stones.
069:		
Zimbob-----	Poorly suited-----	Droughty, small stones.
Hyzen-----	Poorly suited-----	Too arid, droughty, large stones.
Rock Outcrop-----	Not rated-----	
070:		
Stewval-----	Poorly suited-----	Too arid, droughty, small stones.
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
071:		
Stewval-----	Poorly suited-----	Too arid, droughty, small stones.
Wesfil-----	Poorly suited-----	Too arid, droughty, small stones.
Rock Outcrop-----	Not rated-----	
080:		
Stewval-----	Poorly suited-----	Too arid, droughty, small stones.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
092:		
Wesfil-----	Poorly suited-----	Too arid, droughty, small stones.
Wintermute-----	Poorly suited-----	Too arid.
Okan-----	Suited-----	Too arid, droughty.
098:		
Wesfil-----	Poorly suited-----	Too arid, droughty, small stones.
Tarnach-----	Poorly suited-----	Droughty, small stones.
Wesfil-----	Poorly suited-----	Too arid, droughty, small stones.
099:		
Wesfil-----	Poorly suited-----	Too arid, droughty, small stones.
Armespan-----	Poorly suited-----	Small stones, excess salt.
Heist-----	Suited-----	Too arid, excess salt, excess sodium.
100:		
Benin-----	Poorly suited-----	Too arid, rooting depth, excess salt.
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
101:		
Toano-----	Poorly suited-----	Too arid.
Linoyer-----	Suited-----	Too arid.
103:		
Benin-----	Poorly suited-----	Too arid, rooting depth, excess salt.
Playas-----	Poorly suited-----	Too arid, droughty, rooting depth.
111:		
Gravier-----	Poorly suited-----	Too arid, droughty, small stones.
Armespan-----	Poorly suited-----	Small stones, excess salt.
113:		
Gravier-----	Poorly suited-----	Too arid, droughty, small stones.
Gravier-----	Poorly suited-----	Too arid, small stones, excess salt.
Jericho-----	Poorly suited-----	Droughty, small stones.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
116:		
Gravier-----	Poorly suited-----	Too arid, small stones, excess salt.
Izamatch-----	Poorly suited-----	Too arid, droughty.
Loray-----	Poorly suited-----	Too arid.
118:		
Gravier-----	Poorly suited-----	Too arid, droughty, small stones.
Automal-----	Suited-----	Too arid, droughty.
Zerk-----	Poorly suited-----	Too arid.
119:		
Wintermute-----	Poorly suited-----	Too arid.
Linoyer-----	Suited-----	Too arid.
120:		
Izamatch-----	Poorly suited-----	Too arid, droughty, small stones.
Armespan-----	Poorly suited-----	Small stones, excess salt.
Cliffdown-----	Poorly suited-----	Too arid, droughty, small stones.
122:		
Gravier-----	Poorly suited-----	Too arid, small stones, excess salt.
Izamatch-----	Poorly suited-----	Too arid, droughty, small stones.
130:		
Tocele-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Benin-----	Poorly suited-----	Too arid, rooting depth, excess salt.
140:		
Gollaher-----	Poorly suited-----	Too arid, droughty, small stones.
Belsac-----	Poorly suited-----	Small stones.
151:		
Hopeka-----	Poorly suited-----	Too arid, droughty, small stones.
Amene-----	Poorly suited-----	Droughty, small stones.
Rock Outcrop-----	Not rated-----	

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
154:		
Hopeka-----	Poorly suited-----	Too arid, droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
160:		
Saltair-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Kawich-----	Poorly suited-----	Too arid, droughty, too sandy.
161:		
Saltair-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Playas-----	Poorly suited-----	Too arid, droughty, excess salt.
171:		
Loray-----	Poorly suited-----	Too arid.
Gravier-----	Poorly suited-----	Too arid, droughty, small stones.
Toano-----	Poorly suited-----	Too arid.
173:		
Cliffdown-----	Poorly suited-----	Too arid, droughty, small stones.
Armespan-----	Poorly suited-----	Small stones, excess salt.
Izamatch-----	Poorly suited-----	Too arid, droughty, small stones.
174:		
Wintermute-----	Poorly suited-----	Too arid.
Linoyer-----	Suited-----	Too arid.
Okan-----	Suited-----	Too arid, droughty.
175:		
Loray-----	Poorly suited-----	Too arid.
Wintermute-----	Poorly suited-----	Too arid.
176:		
Loray-----	Poorly suited-----	Too arid.
Zerk-----	Poorly suited-----	Too arid.
Zerk-----	Poorly suited-----	Too arid.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
181:		
Peeko-----	Poorly suited-----	Too arid, droughty.
Dewar-----	Suited-----	Too arid, droughty, cemented pan.
Peeko-----	Poorly suited-----	Too arid, droughty.
182:		
Peeko-----	Poorly suited-----	Too arid, droughty.
Peeko-----	Poorly suited-----	Too arid, droughty.
Gance-----	Poorly suited-----	Small stones, rooting depth.
183:		
Peeko-----	Poorly suited-----	Too arid, droughty.
Enko-----	Poorly suited-----	Excess salt.
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
185:		
Peeko-----	Poorly suited-----	Too arid, droughty.
Peeko-----	Poorly suited-----	Too arid, droughty.
Chiara-----	Poorly suited-----	Too arid, droughty, excess sodium.
186:		
Palinor-----	Poorly suited-----	Too arid, droughty.
Pharo-----	Suited-----	Too arid, droughty.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
187:		
Peeko-----	Poorly suited-----	Too arid, droughty.
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
188:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Automal-----	Suited-----	Too arid, droughty.
Izar-----	Poorly suited-----	Too arid, droughty, small stones.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
192:		
Hutchley-----	Poorly suited-----	Too arid, droughty, small stones.
Simon-----	Suited-----	Too arid.
201:		
Tecomar-----	Poorly suited-----	Droughty, small stones.
Hopeka-----	Poorly suited-----	Too arid, droughty, small stones.
Rock Outcrop-----	Not rated-----	
203:		
Tecomar-----	Poorly suited-----	Droughty, small stones.
Pookaloo-----	Poorly suited-----	Droughty, small stones.
Pharo-----	Suited-----	Too arid, droughty.
210:		
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Hardhat-----	Poorly suited-----	Too arid.
Loray-----	Poorly suited-----	Too arid.
211:		
Valmy-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Enko-----	Poorly suited-----	Excess salt.
230:		
Zafod-----	Poorly suited-----	Droughty, large stones.
Pyrat-----	Poorly suited-----	Droughty, small stones.
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
231:		
Dacker-----	Suited-----	Too arid, droughty, excess salt.
Nevador-----	Poorly suited-----	Rooting depth.
Kelk-----	Suited-----	Too arid, excess salt.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
240:		
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Cobre-----	Suited-----	Too arid.
241:		
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Peeko-----	Poorly suited-----	Too arid, droughty.
Kzin-----	Poorly suited-----	Droughty, small stones, depth to rock.
242:		
Cobre-----	Suited-----	Too arid.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Chiara-----	Poorly suited-----	Too arid, droughty, excess sodium.
244:		
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Shabliss-----	Poorly suited-----	Droughty.
Palinor-----	Poorly suited-----	Too arid, droughty.
250:		
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
Holborn-----	Poorly suited-----	Droughty, depth to rock.
Kzin-----	Poorly suited-----	Droughty, small stones, depth to rock.
251:		
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Shabliss-----	Poorly suited-----	Droughty.
252:		
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Okan-----	Suited-----	Too arid, droughty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
260:		
Dewar-----	Suited-----	Too arid, droughty, cemented pan.
Chiara-----	Poorly suited-----	Too arid, droughty, excess sodium.
Hunnton-----	Suited-----	Too arid, droughty, excess salt.
270:		
Chiara-----	Poorly suited-----	Too arid, droughty, excess sodium.
Kelk-----	Suited-----	Too arid, excess salt.
Kelk-----	Suited-----	Too arid, excess salt.
273:		
Chiara-----	Poorly suited-----	Too arid, droughty, excess sodium.
Dewar-----	Suited-----	Too arid, droughty, cemented pan.
Enko-----	Poorly suited-----	Excess salt.
276:		
Chiara-----	Poorly suited-----	Too arid, droughty, excess sodium.
Peeko-----	Poorly suited-----	Too arid, droughty.
Urmafot-----	Poorly suited-----	Droughty.
279:		
Chiara-----	Poorly suited-----	Too arid, droughty, excess sodium.
Parisa-----	Suited-----	Too arid, droughty, excess sodium.
Enko-----	Suited-----	Too arid, excess salt, excess sodium.
280:		
Oupico-----	Poorly suited-----	Too arid.
Enko-----	Suited-----	Too arid.
282:		
Shabliss-----	Poorly suited-----	Droughty.
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Okan-----	Suited-----	Too arid, droughty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
310:		
Sonoma-----	Suited-----	Excess salt, excess sodium.
Devilsgait-----	Well suited-----	
Sonoma-----	Poorly suited-----	Excess salt.
311:		
Sonoma-----	Suited-----	Excess salt, excess sodium.
Kelk-----	Suited-----	Too arid, excess salt.
330:		
Kzin-----	Poorly suited-----	Droughty, small stones, depth to rock.
Holborn-----	Poorly suited-----	Droughty, depth to rock.
Kzin-----	Poorly suited-----	Droughty, small stones, depth to rock.
331:		
Kzin-----	Poorly suited-----	Droughty, small stones, depth to rock.
Cobre-----	Suited-----	Too arid.
Jackpot-----	Suited-----	Too arid, depth to rock.
333:		
Kzin-----	Poorly suited-----	Droughty, small stones, depth to rock.
Holborn-----	Poorly suited-----	Droughty, depth to rock.
Onkeyo-----	Poorly suited-----	Droughty, small stones.
340:		
Shuttle-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Hardhat-----	Poorly suited-----	Too arid.
Shuttle-----	Poorly suited-----	Too arid, excess salt, excess sodium.
350:		
Jericho-----	Poorly suited-----	Droughty, small stones.
Jericho-----	Poorly suited-----	Droughty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
351:		
Shabliss-----	Poorly suited-----	Droughty.
Okan-----	Suited-----	Too arid, droughty.
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
355:		
Shabliss-----	Poorly suited-----	Droughty.
Okan-----	Suited-----	Too arid, droughty.
Okan-----	Suited-----	Too arid, droughty.
370:		
Toano-----	Poorly suited-----	Too arid.
Tulase-----	Suited-----	Too arid.
371:		
Linoyer-----	Suited-----	Too arid.
Okan-----	Suited-----	Too arid, droughty.
373:		
Timpie-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Pilttdown-----	Poorly suited-----	Too arid.
Linoyer-----	Suited-----	Too arid.
374:		
Heist-----	Suited-----	Too arid, excess salt, excess sodium.
Okan-----	Suited-----	Too arid, droughty.
Zerk-----	Poorly suited-----	Too arid.
375:		
Toano-----	Poorly suited-----	Too arid.
Heist-----	Suited-----	Too arid, excess salt, excess sodium.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
380:		
Cobre-----	Suited-----	Too arid.
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
Jackpot-----	Suited-----	Too arid, depth to rock.
381:		
Cobre-----	Suited-----	Too arid.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Jackpot-----	Suited-----	Too arid, depth to rock.
382:		
Cobre-----	Suited-----	Too arid.
Enko-----	Poorly suited-----	Excess salt.
390:		
Hardol-----	Poorly suited-----	Small stones, erodes easily.
Muiral-----	Suited-----	Droughty.
Rubble Land-----	Poorly suited-----	Too arid, droughty, large stones.
392:		
Hardol-----	Poorly suited-----	Small stones, erodes easily.
Muiral-----	Suited-----	Droughty.
Onkeyo-----	Poorly suited-----	Droughty, small stones.
400:		
Cleavage-----	Poorly suited-----	Too arid, droughty, small stones.
Cleavage-----	Poorly suited-----	Too arid, droughty, small stones.
Sumine-----	Poorly suited-----	Droughty, small stones.
410:		
Jericho-----	Poorly suited-----	Droughty, small stones.
411:		
Jericho-----	Poorly suited-----	Droughty, small stones.
Armespan-----	Poorly suited-----	Small stones, excess salt.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
420:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
421:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Automal-----	Suited-----	Too arid, droughty.
422:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Zimbob-----	Poorly suited-----	Droughty, small stones.
Okan-----	Suited-----	Too arid, droughty.
424:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Okan-----	Suited-----	Too arid, droughty.
426:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Automal-----	Suited-----	Too arid, droughty.
Wintermute-----	Poorly suited-----	Too arid.
429:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Automal-----	Suited-----	Too arid, droughty.
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
430:		
Graley-----	Poorly suited-----	Droughty, small stones, rooting depth.
Pioche-----	Poorly suited-----	Droughty, small stones, rooting depth.
Cropper-----	Poorly suited-----	Droughty, small stones.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
431:		
Graley-----	Poorly suited-----	Droughty, rooting depth.
Chen-----	Poorly suited-----	Too arid, droughty, small stones.
McIvey-----	Poorly suited-----	Small stones.
440:		
Lomcoine-----	Poorly suited-----	Too arid, droughty, small stones.
Bijorja-----	Poorly suited-----	Too arid, droughty.
Lomcoine-----	Poorly suited-----	Too arid, droughty, small stones.
460:		
Okan-----	Suited-----	Too arid, droughty.
Automal-----	Suited-----	Too arid, droughty.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
470:		
Rozara-----	Poorly suited-----	Droughty, small stones.
Cucamungo-----	Poorly suited-----	Droughty, small stones.
Rock Outcrop-----	Not rated-----	
471:		
Cucamungo-----	Poorly suited-----	Droughty, small stones.
Hendap-----	Poorly suited-----	Droughty, small stones.
Rock Outcrop-----	Not rated-----	
480:		
Shabliss-----	Poorly suited-----	Droughty.
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
485:		
Shabliss-----	Poorly suited-----	Droughty.
Parisa-----	Suited-----	Too arid, droughty, excess sodium.
Hunnton-----	Suited-----	Too arid, droughty, excess salt.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
490:		
Wintermute-----	Poorly suited-----	Too arid.
Automal-----	Suited-----	Too arid, droughty.
492:		
Wintermute-----	Poorly suited-----	Too arid.
Peeko-----	Poorly suited-----	Too arid, droughty.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
494:		
Wintermute-----	Poorly suited-----	Too arid.
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Automal-----	Suited-----	Too arid, droughty.
496:		
Sodhouse-----	Poorly suited-----	Too arid, droughty.
Sodhouse-----	Poorly suited-----	Too arid, droughty.
Linoyer-----	Suited-----	Too arid, droughty.
497:		
Sodhouse-----	Poorly suited-----	Too arid, droughty.
Sodhouse-----	Poorly suited-----	Too arid, droughty.
Palinor-----	Poorly suited-----	Too arid, droughty.
501:		
Pharo-----	Suited-----	Too arid, droughty.
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
Okan-----	Suited-----	Too arid, droughty.
503:		
Automal-----	Suited-----	Too arid, droughty.
Okan-----	Suited-----	Too arid, droughty.
Wintermute-----	Poorly suited-----	Too arid.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
504:		
Automal-----	Suited-----	Too arid, droughty.
Wintermute-----	Poorly suited-----	Too arid.
510:		
Adobe-----	Poorly suited-----	Too arid, droughty, small stones.
Hardzem-----	Poorly suited-----	Droughty.
Haunchee-----	Poorly suited-----	Droughty, small stones.
511:		
Adobe-----	Poorly suited-----	Too arid, droughty, small stones.
Wardbay-----	Poorly suited-----	Small stones.
Hardol-----	Poorly suited-----	Small stones.
512:		
Adobe-----	Poorly suited-----	Too arid, droughty, small stones.
Cavehill-----	Poorly suited-----	Small stones.
Wardbay-----	Poorly suited-----	Small stones.
520:		
Haunchee-----	Poorly suited-----	Droughty, small stones.
Muiral-----	Suited-----	Droughty.
Wardbay-----	Poorly suited-----	Small stones.
530:		
Wardbay-----	Poorly suited-----	Small stones.
Adobe-----	Poorly suited-----	Too arid, droughty, small stones.
Haunchee-----	Poorly suited-----	Droughty, small stones.
532:		
Onkeyo-----	Poorly suited-----	Droughty, small stones.
Pookaloo-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
540:		
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Sycomat-----	Poorly suited-----	Too arid.
541:		
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Sheffit-----	Poorly suited-----	Rooting depth, excess salt, excess sodium.
550:		
Urmafot-----	Poorly suited-----	Droughty.
Bobs-----	Poorly suited-----	Droughty.
Urmafot-----	Poorly suited-----	Droughty.
551:		
Urmafot-----	Poorly suited-----	Droughty.
Bobs-----	Poorly suited-----	Droughty.
552:		
Urmafot-----	Poorly suited-----	Droughty, small stones.
Pharo-----	Suited-----	Too arid, droughty.
554:		
Urmafot-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
Urmafot-----	Poorly suited-----	Droughty, small stones.
561:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Urmafot-----	Poorly suited-----	Droughty, small stones.
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
562:		
Bobs-----	Poorly suited-----	Droughty, small stones.
563:		
Bobs-----	Poorly suited-----	Droughty.
Pyrat-----	Poorly suited-----	Droughty, small stones.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
575:		
Pookaloo-----	Poorly suited-----	Droughty, small stones.
Cavehill-----	Poorly suited-----	Small stones.
Rock Outcrop-----	Not rated-----	
576:		
Pookaloo-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
Onkeyo-----	Poorly suited-----	Droughty, small stones.
582:		
Sheffit-----	Poorly suited-----	Excess salt, excess sodium.
Sheffit-----	Poorly suited-----	Rooting depth, excess salt, excess sodium.
Katelana-----	Poorly suited-----	Too arid, excess salt.
590:		
Upatad-----	Poorly suited-----	Droughty, small stones.
Segura-----	Poorly suited-----	Droughty.
600:		
Onkeyo-----	Poorly suited-----	Droughty, small stones.
Amene-----	Poorly suited-----	Droughty, small stones.
Pookaloo-----	Poorly suited-----	Droughty, small stones.
610:		
Wintermute-----	Poorly suited-----	Too arid.
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
614:		
Wintermute-----	Poorly suited-----	Too arid.
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
Zerk-----	Poorly suited-----	Too arid.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
617:		
Wintermute-----	Poorly suited-----	Too arid.
Zerk-----	Poorly suited-----	Too arid.
Loray-----	Poorly suited-----	Too arid.
620:		
Atlow-----	Poorly suited-----	Too arid, droughty, small stones.
Atlow-----	Poorly suited-----	Too arid, droughty, small stones.
631:		
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
Wintermute-----	Poorly suited-----	Too arid.
Okan-----	Suited-----	Too arid, droughty.
632:		
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
Zafod-----	Poorly suited-----	Droughty.
634:		
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
Shabliss-----	Poorly suited-----	Droughty.
Izar-----	Poorly suited-----	Too arid, droughty, small stones.
636:		
Eastwell-----	Poorly suited-----	Too arid, droughty, small stones.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Okan-----	Suited-----	Too arid, droughty.
650:		
Mizpah-----	Poorly suited-----	Too arid, rooting depth.
Zerk-----	Poorly suited-----	Too arid.
Wintermute-----	Poorly suited-----	Too arid.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
671:		
Idway-----	Suited-----	Too arid, droughty.
Mysol-----	Poorly suited-----	Too arid, excess salt, excess sodium.
672:		
Idway-----	Suited-----	Too arid, droughty.
James Canyon-----	Suited-----	Too arid.
680:		
Simon-----	Suited-----	Too arid, erodes easily.
Graley-----	Poorly suited-----	Droughty, rooting depth.
Chen-----	Poorly suited-----	Too arid, droughty, small stones.
691:		
Tarnach-----	Poorly suited-----	Droughty, small stones.
Tarnach-----	Poorly suited-----	Droughty, small stones.
Wesfil-----	Poorly suited-----	Too arid, droughty, small stones.
692:		
Tarnach-----	Poorly suited-----	Droughty, small stones.
Upatad-----	Poorly suited-----	Droughty, small stones.
Wesfil-----	Poorly suited-----	Too arid, droughty, small stones.
700:		
Shabliss-----	Poorly suited-----	Droughty.
Tulase-----	Suited-----	Too arid.
Linoyer-----	Suited-----	Too arid.
720:		
Mysol-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Mysol-----	Poorly suited-----	Too arid, excess salt, excess sodium.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
730:		
Idway-----	Poorly suited-----	Too sandy, soil blowing.
Kawich-----	Poorly suited-----	Too arid, droughty, too sandy.
Mysol-----	Poorly suited-----	Too arid, excess salt, excess sodium.
733:		
Idway-----	Poorly suited-----	Too sandy, soil blowing.
Idway-----	Suited-----	Too arid, droughty.
Mysol-----	Poorly suited-----	Too arid, excess salt, excess sodium.
740:		
Upatad-----	Poorly suited-----	Droughty, small stones.
Pioche-----	Poorly suited-----	Droughty, small stones, rooting depth.
Tarnach-----	Poorly suited-----	Droughty, small stones.
760:		
Playas-----	Poorly suited-----	Too arid, droughty, rooting depth.
761:		
Umberland-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Umberland-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
762:		
Umberland-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Playas-----	Poorly suited-----	Too arid, droughty, rooting depth.
763:		
Equis-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Umberland-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Duffer-----	Poorly suited-----	Too arid, excess salt, excess sodium.
764:		
Umberland-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Rubylake-----	Poorly suited-----	Excess salt.
Orupa-----	Poorly suited-----	Excess salt.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
765:		
Umberland-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Umberland-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
767:		
Umberland-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Umberland-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Orupa-----	Poorly suited-----	Excess salt.
781:		
Mysol-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Benin-----	Poorly suited-----	Too arid, rooting depth, excess salt.
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
800:		
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Toano-----	Poorly suited-----	Too arid.
801:		
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Zerk-----	Poorly suited-----	Too arid.
Okan-----	Suited-----	Too arid, droughty.
804:		
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Kawich-----	Poorly suited-----	Too arid, droughty, too sandy.
Playas-----	Poorly suited-----	Too arid, droughty, rooting depth.
807:		
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Zerk-----	Poorly suited-----	Too arid.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
823:		
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Blimo-----	Suited-----	Too arid, excess salt.
824:		
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Katelana-----	Poorly suited-----	Too arid, excess salt.
827:		
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
James Canyon-----	Well suited-----	
James Canyon-----	Suited-----	Too arid.
828:		
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
830:		
Pharo-----	Suited-----	Too arid, droughty, erodes easily.
Kzin-----	Poorly suited-----	Droughty, small stones, depth to rock.
Pharo-----	Suited-----	Too arid, droughty.
842:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Timpie-----	Poorly suited-----	Too arid, excess salt, excess sodium.
843:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Kawich-----	Poorly suited-----	Too arid, droughty, too sandy.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
845:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Ragtown-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Timpie-----	Poorly suited-----	Too arid, excess salt, excess sodium.
847:		
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Blimo-----	Suited-----	Too arid, excess salt.
Wintermute-----	Poorly suited-----	Too arid.
850:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Wintermute-----	Poorly suited-----	Too arid.
Okan-----	Suited-----	Too arid, droughty.
851:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Zimbob-----	Poorly suited-----	Too arid, droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
852:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Shabliss-----	Poorly suited-----	Droughty.
854:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Automal-----	Suited-----	Too arid, droughty.
Shabliss-----	Poorly suited-----	Droughty.
856:		
Palinor-----	Poorly suited-----	Too arid, droughty.
Parisa-----	Suited-----	Too arid, droughty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
857:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Shabliss-----	Poorly suited-----	Droughty.
Linoyer-----	Suited-----	Too arid.
858:		
Palinor-----	Poorly suited-----	Too arid, droughty, small stones.
Automal-----	Suited-----	Too arid, droughty.
Linoyer-----	Suited-----	Too arid.
870:		
Theriot-----	Poorly suited-----	Too arid, droughty, small stones.
Zimbob-----	Poorly suited-----	Droughty, small stones.
880:		
Duffer-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Duffer-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Kolda-----	Poorly suited-----	Excess salt.
881:		
Duffer-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
882:		
Duffer-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Kolda-----	Poorly suited-----	Excess salt.
894:		
Zerk-----	Poorly suited-----	Too arid.
Threese-----	Suited-----	Too arid, droughty.
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
900:		
Zerk-----	Poorly suited-----	Too arid.
Automal-----	Suited-----	Too arid, droughty.
Linoyer-----	Suited-----	Too arid.
910:		
Ragtown-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Ragtown-----	Poorly suited-----	Too arid, excess salt, excess sodium.
912:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Katelana-----	Poorly suited-----	Too arid, excess salt.
914:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Benin-----	Poorly suited-----	Too arid, rooting depth, excess salt.
Sheffit-----	Poorly suited-----	Rooting depth, excess salt, excess sodium.
917:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Sheffit-----	Poorly suited-----	Rooting depth, excess salt, excess sodium.
Ragtown-----	Poorly suited-----	Too arid, excess salt, excess sodium.
918:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Zorravista-----	Suited-----	Too arid, droughty, too sandy.
Playas-----	Poorly suited-----	Too arid, droughty, rooting depth.
930:		
Okan-----	Suited-----	Too arid, droughty.
Toano-----	Poorly suited-----	Too arid.
Loray-----	Poorly suited-----	Too arid.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
932:		
Okan-----	Suited-----	Too arid, droughty.
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
941:		
Sheffit-----	Poorly suited-----	Rooting depth, excess salt, excess sodium.
Sheffit-----	Poorly suited-----	Excess salt, excess sodium.
Zorravista-----	Suited-----	Too arid, droughty, too sandy.
943:		
Sheffit-----	Poorly suited-----	Rooting depth, excess salt, excess sodium.
Umberland-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
960:		
Gravier-----	Poorly suited-----	Too arid, droughty, small stones.
Zerk-----	Poorly suited-----	Too arid.
961:		
Gravier-----	Poorly suited-----	Too arid, too sandy, excess salt.
Piltdown-----	Poorly suited-----	Too arid.
Zerk-----	Poorly suited-----	Too arid.
972:		
Zimbob-----	Poorly suited-----	Droughty, small stones.
Zimbob-----	Poorly suited-----	Too arid, droughty, small stones.
Pookaloo-----	Poorly suited-----	Droughty, small stones.
974:		
Zimbob-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
Pookaloo-----	Poorly suited-----	Droughty, small stones.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
975:		
Zimbob-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
980:		
Onkeyo-----	Poorly suited-----	Droughty, small stones.
Pookaloo-----	Poorly suited-----	Droughty, small stones.
Zimbob-----	Poorly suited-----	Droughty, small stones.
990:		
Hyzen-----	Poorly suited-----	Too arid, droughty, large stones.
Zimbob-----	Poorly suited-----	Too arid, droughty, small stones.
991:		
Hyzen-----	Poorly suited-----	Too arid, droughty, large stones.
Cavehill-----	Poorly suited-----	Small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
1000:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Zerk-----	Poorly suited-----	Too arid.
1001:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Okan-----	Suited-----	Too arid, droughty.
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
1002:		
Threesee-----	Suited-----	Too arid, droughty.
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Threesee-----	Suited-----	Too arid, droughty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1003:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Hundraw-----	Poorly suited-----	Too arid, droughty, depth to rock.
Tulase-----	Suited-----	Too arid.
1004:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Parisa-----	Suited-----	Too arid, droughty, excess sodium.
Tulase-----	Suited-----	Too arid.
1005:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Zerk-----	Poorly suited-----	Too arid.
Parisa-----	Suited-----	Too arid, droughty, excess sodium.
1006:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Blimo-----	Suited-----	Too arid, droughty, excess salt.
1007:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Parisa-----	Suited-----	Too arid, droughty, excess sodium.
Automal-----	Suited-----	Too arid, droughty.
1009:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Tulase-----	Suited-----	Too arid.
Wintermute-----	Poorly suited-----	Too arid.
1020:		
Okan-----	Suited-----	Too arid, droughty.
Eastwell-----	Poorly suited-----	Too arid, droughty, excess sodium.
Blimo-----	Suited-----	Too arid, excess salt.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1023:		
Okan-----	Suited-----	Too arid, droughty.
Okan-----	Suited-----	Too arid, droughty.
Katelana-----	Poorly suited-----	Too arid, excess salt.
1030:		
Segura-----	Poorly suited-----	Droughty.
Bullump-----	Poorly suited-----	Small stones.
Hutchley-----	Poorly suited-----	Too arid, droughty, small stones.
1040:		
Segura-----	Poorly suited-----	Droughty.
Pioche-----	Poorly suited-----	Droughty, small stones, rooting depth.
Chen-----	Poorly suited-----	Too arid, droughty, small stones.
1061:		
Pioche-----	Poorly suited-----	Droughty, small stones, rooting depth.
Cucamungo-----	Poorly suited-----	Droughty, small stones.
Rock Outcrop-----	Not rated-----	
1070:		
Zafod-----	Poorly suited-----	Droughty.
Automal-----	Suited-----	Too arid, droughty.
Okan-----	Suited-----	Too arid, droughty.
1080:		
Cotant-----	Poorly suited-----	Droughty, rooting depth.
Segura-----	Poorly suited-----	Droughty.
1111:		
Parisa-----	Suited-----	Too arid, droughty, excess sodium.
1120:		
Okan-----	Suited-----	Too arid, droughty.
Automal-----	Suited-----	Too arid, droughty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1150:		
Adobe-----	Poorly suited-----	Too arid, droughty, small stones.
Wardbay-----	Poorly suited-----	Small stones.
Haunchee-----	Poorly suited-----	Droughty, small stones.
1161:		
Pharo-----	Suited-----	Too arid, droughty.
Bobs-----	Poorly suited-----	Droughty.
Pookaloo-----	Poorly suited-----	Droughty, small stones.
1171:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Automal-----	Suited-----	Too arid, droughty.
Gravier-----	Poorly suited-----	Too arid, droughty, small stones.
1172:		
Pyrat-----	Poorly suited-----	Droughty, small stones.
Automal-----	Poorly suited-----	Droughty, small stones.
Automal-----	Suited-----	Too arid, droughty.
1173:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Automal-----	Suited-----	Too arid, droughty.
1174:		
Pyrat-----	Suited-----	Too arid, droughty, excess salt.
Tosser-----	Poorly suited-----	Droughty, small stones.
1180:		
Haunchee-----	Poorly suited-----	Droughty, small stones.
Cavehill-----	Suited-----	Too arid, droughty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1181:		
Haunchee-----	Poorly suited-----	Droughty, small stones.
Halacan-----	Poorly suited-----	Too arid, droughty, small stones.
Wardbay-----	Poorly suited-----	Small stones.
1190:		
Upatad-----	Poorly suited-----	Droughty, small stones.
Atlow-----	Poorly suited-----	Too arid, droughty, small stones.
Upatad-----	Poorly suited-----	Droughty, small stones.
1191:		
Upatad-----	Poorly suited-----	Droughty, small stones.
Pioche-----	Poorly suited-----	Droughty, small stones, rooting depth.
Rock Outcrop-----	Not rated-----	
1200:		
Hardol-----	Poorly suited-----	Small stones, erodes easily.
Hardzem-----	Poorly suited-----	Droughty.
Rock Outcrop-----	Not rated-----	
1201:		
Hardol-----	Poorly suited-----	Small stones, erodes easily.
Rock Outcrop-----	Not rated-----	
Wardbay-----	Poorly suited-----	Small stones.
1210:		
Blimo-----	Suited-----	Too arid, excess salt.
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Linoyer-----	Suited-----	Too arid.
1213:		
Blimo-----	Suited-----	Too arid, droughty, excess salt.
Threesee-----	Suited-----	Too arid, droughty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1215:		
Blimo-----	Suited-----	Too arid, droughty, excess salt.
Zorravista-----	Suited-----	Too arid, droughty, too sandy.
1216:		
Blimo-----	Suited-----	Too arid, droughty, excess salt.
Idway-----	Suited-----	Too arid, droughty.
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
1220:		
Onkeyo-----	Poorly suited-----	Droughty, small stones.
Adobe-----	Poorly suited-----	Too arid, droughty, small stones.
Pookaloo-----	Poorly suited-----	Droughty, small stones.
1230:		
Hardzem-----	Poorly suited-----	Droughty, small stones.
Haunchee-----	Poorly suited-----	Droughty, small stones.
Wardbay-----	Poorly suited-----	Small stones.
1240:		
Benin-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Benin-----	Poorly suited-----	Too arid, rooting depth, excess salt.
1241:		
Benin-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Playas-----	Poorly suited-----	Too arid, droughty, rooting depth.
Benin-----	Poorly suited-----	Too arid, rooting depth, excess salt.
1250:		
Tecomar-----	Poorly suited-----	Droughty, small stones.
Pookaloo-----	Poorly suited-----	Droughty, small stones.
1270:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Sheffit-----	Poorly suited-----	Rooting depth, excess salt, excess sodium.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1271:		
Uvada-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Ragtown-----	Poorly suited-----	Too arid, excess salt, excess sodium.
1272:		
Katelana-----	Poorly suited-----	Too arid, excess salt.
Kawich-----	Poorly suited-----	Too arid, droughty, too sandy.
1280:		
Sycomat-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
1281:		
Sycomat-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Mazuma-----	Poorly suited-----	Too arid, excess salt, excess sodium.
1290:		
Heist-----	Suited-----	Too arid, excess salt, excess sodium.
Blimo-----	Suited-----	Too arid, excess salt.
1300:		
Cavehill-----	Poorly suited-----	Small stones.
Haunchee-----	Poorly suited-----	Droughty, small stones.
Hardzem-----	Poorly suited-----	Droughty.
1360:		
Toba-----	Poorly suited-----	Too arid, excess sodium.
Appian-----	Poorly suited-----	Too arid, excess salt, excess sodium.
1370:		
Orupa-----	Poorly suited-----	Excess salt.
Playas-----	Poorly suited-----	Too arid, droughty, rooting depth.
Boofuss-----	Poorly suited-----	Excess salt, excess sodium, too crusty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1380:		
Hulderman-----	Suited-----	Too arid, excess salt.
Toba-----	Poorly suited-----	Too arid, excess sodium.
Benin-----	Poorly suited-----	Too arid, excess salt, excess sodium.
1390:		
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Mysol-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Toba-----	Poorly suited-----	Too arid, excess sodium.
1410:		
Threese-----	Suited-----	Too arid, droughty.
Tosser-----	Poorly suited-----	Droughty, small stones.
1411:		
Threese-----	Suited-----	Too arid, droughty.
Linoyer-----	Suited-----	Too arid, droughty.
Okan-----	Suited-----	Too arid, droughty.
1412:		
Threese-----	Suited-----	Too arid, droughty.
Idway-----	Poorly suited-----	Too sandy.
1413:		
Idway-----	Suited-----	Too arid, droughty.
Zorravista-----	Suited-----	Too arid, droughty, too sandy.
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
1414:		
Threese-----	Suited-----	Too arid, droughty.
Shantown-----	Suited-----	Too arid, droughty.
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1430:		
Pookaloo-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Too arid, droughty, small stones.
Rock Outcrop-----	Not rated-----	
1440:		
Boofuss-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Boofuss-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Equis-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
1441:		
Boofuss-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Umberland-----	Poorly suited-----	Too arid, excess salt, excess sodium.
1450:		
Filttdown-----	Poorly suited-----	Too arid.
Kawich-----	Poorly suited-----	Too arid, droughty, too sandy.
1460:		
Tosser-----	Poorly suited-----	Droughty, small stones.
Threesee-----	Suited-----	Too arid, droughty.
1471:		
Timpie-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Kunzler-----	Poorly suited-----	Excess salt, excess sodium.
Threesee-----	Suited-----	Too arid, droughty.
1480:		
Tulase-----	Suited-----	Too arid.
Linoyer-----	Suited-----	Too arid.
1500:		
Tocele-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Loray-----	Poorly suited-----	Too arid.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1510:		
Izamatc-----	Poorly suited-----	Too arid, droughty.
Cliffdown-----	Poorly suited-----	Too arid, droughty, small stones.
1520:		
Izamatc-----	Poorly suited-----	Too arid, droughty.
Izamatc-----	Poorly suited-----	Too arid, droughty.
Luning-----	Poorly suited-----	Too arid, droughty.
1521:		
Izamatc-----	Poorly suited-----	Too arid, droughty.
Izamatc-----	Poorly suited-----	Too arid, droughty.
Theriot-----	Poorly suited-----	Too arid, droughty, large stones.
1522:		
Izamatc-----	Poorly suited-----	Too arid, droughty.
Smaug-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Badland-----	Poorly suited-----	Too arid, droughty, excess salt.
1530:		
Theriot-----	Poorly suited-----	Too arid, droughty, large stones.
Theriot-----	Poorly suited-----	Too arid, droughty, small stones.
Izamatc-----	Poorly suited-----	Too arid, droughty, small stones.
1531:		
Theriot-----	Poorly suited-----	Too arid, droughty, large stones.
Izamatc-----	Poorly suited-----	Too arid, droughty.
Rock Outcrop-----	Not rated-----	
1532:		
Theriot-----	Poorly suited-----	Too arid, droughty, small stones.
Theriot-----	Poorly suited-----	Too arid, droughty, large stones.
Rock Outcrop-----	Not rated-----	

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1540:		
Kyler-----	Poorly suited-----	Too arid, droughty, small stones.
Amtoft-----	Poorly suited-----	Droughty, small stones.
Amtoft-----	Poorly suited-----	Too arid, droughty.
1541:		
Kyler-----	Poorly suited-----	Droughty, small stones.
Kyler-----	Poorly suited-----	Droughty, small stones.
Rock Outcrop-----	Not rated-----	
1542:		
Kyler-----	Poorly suited-----	Droughty, small stones.
Amtoft-----	Poorly suited-----	Too arid, droughty, small stones.
Jericho-----	Poorly suited-----	Droughty, small stones.
1550:		
Jericho-----	Poorly suited-----	Droughty, small stones.
Jericho-----	Poorly suited-----	Droughty, small stones.
1560:		
Toano-----	Poorly suited-----	Too arid.
Timpie-----	Poorly suited-----	Too arid, excess salt, excess sodium.
1570:		
Jericho-----	Poorly suited-----	Droughty, small stones.
Xeric Torriorthents-----	Poorly suited-----	Too arid, droughty.
1580:		
Armespan-----	Poorly suited-----	Small stones, excess salt.
Jericho-----	Poorly suited-----	Droughty, small stones.
1581:		
Armespan-----	Poorly suited-----	Small stones, excess salt.
Kyler-----	Poorly suited-----	Droughty, small stones.
Heist-----	Suited-----	Too arid, excess salt, excess sodium.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1582:		
Armespan-----	Poorly suited-----	Small stones, excess salt.
Xeric Torriorthents-----	Poorly suited-----	Too arid, droughty.
1590:		
Luning-----	Poorly suited-----	Too arid, droughty.
Luning-----	Poorly suited-----	Too arid, droughty.
Loray-----	Poorly suited-----	Too arid.
1591:		
Luning-----	Poorly suited-----	Too arid, droughty.
Izamatch-----	Poorly suited-----	Too arid, droughty, small stones.
Badland-----	Poorly suited-----	Too arid, droughty, excess salt.
1600:		
Eaglepass-----	Poorly suited-----	Too arid, droughty, small stones.
Amtoft-----	Poorly suited-----	Too arid, droughty, small stones.
1610:		
Xeric Torriorthents-----	Poorly suited-----	Too arid, droughty.
Armespan-----	Poorly suited-----	Small stones, excess salt.
Badland-----	Not rated-----	
1620:		
Kolda-----	Suited-----	Excess salt, excess sodium.
Duffer-----	Poorly suited-----	Too arid, excess salt, excess sodium.
Sonoma-----	Suited-----	Excess salt, excess sodium.
1621:		
Kolda-----	Suited-----	Excess salt.
Rubylake-----	Poorly suited-----	Excess salt.
Kolda-----	Suited-----	Excess salt, excess sodium.
1622:		
Kolda-----	Suited-----	Excess salt, excess sodium.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1623:		
Kolda-----	Suited-----	Excess salt, excess sodium.
Water-----	Not rated-----	
1630:		
Pookaloo-----	Poorly suited-----	Droughty, small stones.
Cavehill-----	Poorly suited-----	Small stones.
Rock Outcrop-----	Not rated-----	
1631:		
Pookaloo-----	Poorly suited-----	Droughty, small stones.
Tecomar-----	Poorly suited-----	Droughty, small stones.
Wardbay-----	Poorly suited-----	Small stones.
1640:		
Jungo-----	Poorly suited-----	Too arid, small stones.
Jungo-----	Poorly suited-----	Too arid, small stones.
1650:		
Shantown-----	Suited-----	Too arid, droughty.
Zorravista-----	Suited-----	Too arid, droughty, too sandy.
1651:		
Shantown-----	Suited-----	Too arid, droughty.
Shantown-----	Suited-----	Too arid, droughty.
1660:		
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Logan-----	Well suited-----	
1670:		
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Logan-----	Well suited-----	
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1680:		
Rubylake-----	Poorly suited-----	Excess salt.
Kolda-----	Suited-----	Excess salt.
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
1681:		
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Logan-----	Well suited-----	
Umberland-----	Poorly suited-----	Too arid, excess salt, excess sodium.
1690:		
Krenka-----	Well suited-----	
Secrepass-----	Poorly suited-----	Rooting depth.
1700:		
Heechee-----	Suited-----	Too arid, droughty.
Rubicity-----	Suited-----	Too arid, droughty.
Heechee-----	Poorly suited-----	Large stones.
1702:		
Heechee-----	Suited-----	Too arid, droughty.
McIvey-----	Poorly suited-----	Small stones.
Rubicity-----	Suited-----	Too arid, droughty.
1710:		
James Canyon-----	Well suited-----	
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
1711:		
James Canyon-----	Well suited-----	
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
1720:		
Welch-----	Well suited-----	

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1721:		
Welch-----	Well suited-----	
Welsum-----	Well suited-----	
1722:		
Welch-----	Suited-----	Too arid.
Slipback-----	Poorly suited-----	Excess sodium.
Welch-----	Well suited-----	
1723:		
Welch-----	Well suited-----	
Welch-----	Well suited-----	
1730:		
McIvey-----	Poorly suited-----	Small stones.
Donna-----	Poorly suited-----	Rooting depth.
1731:		
McIvey-----	Poorly suited-----	Small stones.
Chen-----	Poorly suited-----	Too arid, droughty, small stones.
Donna-----	Poorly suited-----	Rooting depth.
1732:		
McIvey-----	Well suited-----	
Stampede-----	Suited-----	Too arid.
Heechee-----	Suited-----	Too arid, droughty.
1740:		
Slipback-----	Poorly suited-----	Excess sodium.
Welch-----	Suited-----	Too arid.
1741:		
Slipback-----	Poorly suited-----	Excess sodium.
Shantown-----	Suited-----	Too arid, droughty.
Toba-----	Poorly suited-----	Too arid, excess sodium.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1750:		
Heechee-----	Suited-----	Too arid, droughty.
Welch-----	Well suited-----	
Welch-----	Suited-----	Too arid.
1760:		
Lykal-----	Suited-----	Too arid, excess sodium.
Wendane-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
James Canyon-----	Well suited-----	
1770:		
Donna-----	Poorly suited-----	Rooting depth.
McIvey-----	Poorly suited-----	Small stones.
Heechee-----	Poorly suited-----	Small stones.
1780:		
Schoer-----	Poorly suited-----	Rooting depth.
Welch-----	Well suited-----	
1790:		
Donna-----	Poorly suited-----	Rooting depth.
Krenka-----	Well suited-----	
McIvey-----	Poorly suited-----	Small stones.
1800:		
Chen-----	Poorly suited-----	Too arid, droughty, small stones.
Graley-----	Poorly suited-----	Droughty, rooting depth.
Rock Outcrop-----	Not rated-----	
1810:		
Sumine-----	Poorly suited-----	Droughty, small stones, erodes easily.
Tusel-----	Suited-----	Too arid.
Hapgood-----	Poorly suited-----	Small stones.

TABLE 6--SUITABILITY FOR RANGELAND SEEDING--Continued

Soil name and map symbol	Limitation rating	Restrictive features
1820:		
Hussa-----	Suited-----	Too arid, excess salt.
Halleck-----	Well suited-----	
Welsum-----	Well suited-----	
1831:		
Enko-----	Poorly suited-----	Excess salt.
Kelk-----	Suited-----	Too arid, excess salt.
Enko-----	Poorly suited-----	Excess salt.
1840:		
Amene-----	Poorly suited-----	Droughty, small stones.
Belsac-----	Poorly suited-----	Small stones.
Chen-----	Poorly suited-----	Too arid, droughty, small stones.
1850:		
Bullump-----	Poorly suited-----	Small stones.
Cleavage-----	Poorly suited-----	Too arid, droughty, small stones.
Rock Outcrop-----	Not rated-----	
1861:		
Equis-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Devilsgait-----	Well suited-----	
1862:		
Equis-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Equis-----	Poorly suited-----	Excess salt, excess sodium, too crusty.
Kolda-----	Poorly suited-----	Too arid, excess salt.
1870:		
Denied Access-----	Not rated-----	
1880:		
Water-----	Not rated-----	

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY

(Only the map units suitable for production of trees are listed)

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0053: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Urmafot-----	---	---	---	---	---	---	-----	---	---	---
0062: Amtoft-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
Amtoft-----	---	---	---	---	---	---	-----	---	---	---
0066: Zimbob-----	---	---	---	---	---	---	-----	---	---	---
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
0067: Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Pockaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
0069: Zimbob-----	---	---	---	---	---	---	-----	---	---	---
Hyzen-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
0070: Stewval-----	---	---	---	---	---	---	-----	---	---	---
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
0071: Stewval-----	---	---	---	---	---	---	-----	---	---	---
Wesfil-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
0080: Stewval-----	---	---	---	---	---	---	-----	---	---	---
0092: Wesfil-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0098: Wesfil-----	---	---	---	---	---	---	-----	---	---	---
Tarnach-----	---	---	---	---	---	---	-----	---	---	---
Wesfil-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0099: Wesfil-----	---	---	---	---	---	---	-----	---	---	---
Armespan-----	---	---	---	---	---	---	-----	---	---	---
Heist-----	---	---	---	---	---	---	-----	---	---	---
0100: Benin-----	---	---	---	---	---	---	-----	---	---	---
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
0101: Toano-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
0103: Benin-----	---	---	---	---	---	---	-----	---	---	---
Playas-----	---	---	---	---	---	---	-----	---	---	---
0111: Gravier-----	---	---	---	---	---	---	-----	---	---	---
Armespan-----	---	---	---	---	---	---	-----	---	---	---
113: Gravier-----	---	---	---	---	---	---	-----	---	---	---
Gravier-----	---	---	---	---	---	---	-----	---	---	---
Jericho-----	---	---	---	---	---	---	-----	---	---	---
0116: Gravier-----	---	---	---	---	---	---	-----	---	---	---
Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Loray-----	---	---	---	---	---	---	-----	---	---	---
0118: Gravier-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
0119: Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
0120: Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Armespan-----	---	---	---	---	---	---	-----	---	---	---
Cliffdown-----	---	---	---	---	---	---	-----	---	---	---
0122: Gravier-----	---	---	---	---	---	---	-----	---	---	---
Izamatch-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Windthrow hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0130: Tocela-----	---	---	---	---	---	---	-----	---	---	---
Benin-----	---	---	---	---	---	---	-----	---	---	---
0140: Gollaher-----	---	---	---	---	---	---	-----	---	---	---
Belsac-----	---	---	---	---	---	---	-----	---	---	---
0151: Hopeka-----	OR	Severe	Severe	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	33 33	0 0	---
Amene-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
0154: Hopeka-----	OR	Severe	Severe	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	33 33	0 0	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
0160: Saltair-----	---	---	---	---	---	---	-----	---	---	---
Kawich-----	---	---	---	---	---	---	-----	---	---	---
0161: Saltair-----	---	---	---	---	---	---	-----	---	---	---
Playas-----	---	---	---	---	---	---	-----	---	---	---
0171: Loray-----	---	---	---	---	---	---	-----	---	---	---
Gravier-----	---	---	---	---	---	---	-----	---	---	---
Toano-----	---	---	---	---	---	---	-----	---	---	---
0173: Cliffdown-----	---	---	---	---	---	---	-----	---	---	---
Armespan-----	---	---	---	---	---	---	-----	---	---	---
Izamatch-----	---	---	---	---	---	---	-----	---	---	---
0174: Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0175: Loray-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
0176: Loray-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Zerk-----	---	---	---	---	---	---	-----	---	---	---
0181: Peeko-----	---	---	---	---	---	---	-----	---	---	---
Dewar-----	---	---	---	---	---	---	-----	---	---	---
Peeko-----	---	---	---	---	---	---	-----	---	---	---
0182: Peeko-----	---	---	---	---	---	---	-----	---	---	---
Peeko-----	---	---	---	---	---	---	-----	---	---	---
Gance-----	---	---	---	---	---	---	-----	---	---	---
0183: Peeko-----	---	---	---	---	---	---	-----	---	---	---
Enko-----	---	---	---	---	---	---	-----	---	---	---
Izar-----	---	---	---	---	---	---	-----	---	---	---
0185: Peeko-----	---	---	---	---	---	---	-----	---	---	---
Peeko-----	---	---	---	---	---	---	-----	---	---	---
Chiara-----	---	---	---	---	---	---	-----	---	---	---
0186: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Pharo-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	1D	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper-----	59	1	---
0187: Peeko-----	---	---	---	---	---	---	-----	---	---	---
Izar-----	OR	Moderate	Severe	Moderate	Moderate	Moderate	Utah juniper-----	18	0	---
Izar-----	---	---	---	---	---	---	-----	---	---	---
0188: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Izar-----	OR	Moderate	Severe	Moderate	Moderate	Moderate	Utah juniper-----	18	0	---
0192: Hutchley-----	---	---	---	---	---	---	-----	---	---	---
Simon-----	---	---	---	---	---	---	-----	---	---	---
0201: Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Hopeka-----	OR	Severe	Severe	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	33 33	0 0	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
0203:										
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Pookaloo-----	0D	Moderate	Moderate	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Pharo-----	---	---	---	---	---	---	-----	---	---	---
0210:										
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
Hardhat-----	---	---	---	---	---	---	-----	---	---	---
Loray-----	---	---	---	---	---	---	-----	---	---	---
0211:										
Valmy-----	---	---	---	---	---	---	-----	---	---	---
Enko-----	---	---	---	---	---	---	-----	---	---	---
0230:										
Zafod-----	---	---	---	---	---	---	-----	---	---	---
Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Palinor-----	---	---	---	---	---	---	-----	---	---	---
0231:										
Dacker-----	---	---	---	---	---	---	-----	---	---	---
Nevador-----	---	---	---	---	---	---	-----	---	---	---
Kelk-----	---	---	---	---	---	---	-----	---	---	---
0240:										
Hundraw-----	---	---	---	---	---	---	-----	---	---	---
Cobre-----	---	---	---	---	---	---	-----	---	---	---
0241:										
Hundraw-----	---	---	---	---	---	---	-----	---	---	---
Peeko-----	---	---	---	---	---	---	-----	---	---	---
Kzin-----	0D	Slight	Moderate	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	37 37	0 0	---
0242:										
Cobre-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	0D	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper-----	18	0	---
Chiara-----	---	---	---	---	---	---	-----	---	---	---
0244:										
Hundraw-----	---	---	---	---	---	---	-----	---	---	---
Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Palinor-----	---	---	---	---	---	---	-----	---	---	---
0250:										
Izar-----	---	---	---	---	---	---	-----	---	---	---
Holborn-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Kzin-----	OD	Slight	Moderate	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	37 37	0 0	---
0251: Izar-----	---	---	---	---	---	---	-----	---	---	---
Palinor-----	---	---	---	---	---	---	-----	---	---	---
Shabliss-----	---	---	---	---	---	---	-----	---	---	---
0252: Izar-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	OD	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper-----	18	0	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0260: Dewar-----	---	---	---	---	---	---	-----	---	---	---
Chiara-----	---	---	---	---	---	---	-----	---	---	---
Hunnton-----	---	---	---	---	---	---	-----	---	---	---
0270: Chiara-----	---	---	---	---	---	---	-----	---	---	---
Kelk-----	---	---	---	---	---	---	-----	---	---	---
Kelk-----	---	---	---	---	---	---	-----	---	---	---
0273: Chiara-----	---	---	---	---	---	---	-----	---	---	---
Dewar-----	---	---	---	---	---	---	-----	---	---	---
Enko-----	---	---	---	---	---	---	-----	---	---	---
0276: Chiara-----	---	---	---	---	---	---	-----	---	---	---
Peeko-----	---	---	---	---	---	---	-----	---	---	---
Urmafot-----	---	---	---	---	---	---	-----	---	---	---
0279: Chiara-----	---	---	---	---	---	---	-----	---	---	---
Parisa-----	---	---	---	---	---	---	-----	---	---	---
Enko-----	---	---	---	---	---	---	-----	---	---	---
0280: Oupico-----	---	---	---	---	---	---	-----	---	---	---
Enko-----	---	---	---	---	---	---	-----	---	---	---
0282: Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordi-nation symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equip-ment limita-tion	Seedling mortal-ity	Wind-throw hazard	Plant competi-tion	Common trees	Site index	Volume of wood fiber	
									m3/ha	
0310: Sonoma-----	---	---	---	---	---	---	-----	---	---	---
Devilsgait-----	---	---	---	---	---	---	-----	---	---	---
Sonoma-----	---	---	---	---	---	---	-----	---	---	---
0311: Sonoma-----	---	---	---	---	---	---	-----	---	---	---
Kelk-----	---	---	---	---	---	---	-----	---	---	---
0330: Kzin-----	OD	Slight	Moderate	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	37 37	0 0	---
Holborn-----	---	---	---	---	---	---	-----	---	---	---
Kzin-----	OR	Moderate	Severe	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	37 37	0 0	---
0331: Kzin-----	OR	Moderate	Severe	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	37 37	0 0	---
Cobre-----	---	---	---	---	---	---	-----	---	---	---
Jackpot-----	---	---	---	---	---	---	-----	---	---	---
0333: Kzin-----	OD	Slight	Moderate	Severe	Slight	Moderate	Utah juniper----- singleleaf pinyon---	37 37	0 0	---
Holborn-----	---	---	---	---	---	---	-----	---	---	---
Onkeyo-----	---	---	---	---	---	---	-----	---	---	---
0340: Shuttle-----	---	---	---	---	---	---	-----	---	---	---
Hardhat-----	---	---	---	---	---	---	-----	---	---	---
Shuttle-----	---	---	---	---	---	---	-----	---	---	---
0350: Jericho-----	---	---	---	---	---	---	-----	---	---	---
Jericho-----	---	---	---	---	---	---	-----	---	---	---
0351: Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
0355: Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0370: Toano-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Windthrow hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Tulase-----	---	---	---	---	---	---	-----	---	---	---
0371: Linoyer-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0373: Timpie-----	---	---	---	---	---	---	-----	---	---	---
Piltown-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
0374: Heist-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
0375: Toano-----	---	---	---	---	---	---	-----	---	---	---
Heist-----	---	---	---	---	---	---	-----	---	---	---
0380: Cobre-----	---	---	---	---	---	---	-----	---	---	---
Izar-----	---	---	---	---	---	---	-----	---	---	---
Jackpot-----	---	---	---	---	---	---	-----	---	---	---
0381: Cobre-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	1D	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper-----	59	1	---
Jackpot-----	---	---	---	---	---	---	-----	---	---	---
0382: Cobre-----	---	---	---	---	---	---	-----	---	---	---
Enko-----	---	---	---	---	---	---	-----	---	---	---
0390: Hardol-----	---	---	---	---	---	---	-----	---	---	---
Muiral-----	5R	Moderate	Severe	Moderate	Slight	Moderate	limber pine----- white fir-----	43	5	---
Rubble Land-----	---	---	---	---	---	---	-----	---	---	---
0392: Hardol-----	---	---	---	---	---	---	-----	---	---	---
Muiral-----	5R	Moderate	Severe	Moderate	Slight	Moderate	limber pine----- white fir-----	43	5	---
Onkeyo-----	---	---	---	---	---	---	-----	---	---	---
0400: Cleavage-----	---	---	---	---	---	---	-----	---	---	---
Cleavage-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Windthrow hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Sumine-----	---	---	---	---	---	---	-----	---	---	---
410: Jericho-----	---	---	---	---	---	---	-----	---	---	---
411: Jericho-----	---	---	---	---	---	---	-----	---	---	---
Armespan-----	---	---	---	---	---	---	-----	---	---	---
0420: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Palinor-----	---	---	---	---	---	---	-----	---	---	---
0421: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
0422: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0424: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	0D	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper-----	18	0	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0426: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
0429: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Palinor-----	0F	Slight	Slight	Moderate	Slight	Slight	Utah juniper-----	20	0	---
0430: Graley-----	---	---	---	---	---	---	-----	---	---	---
Ploche-----	0R	Moderate	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Cropper-----	0R	Severe	Severe	Moderate	Slight	Slight	singleleaf pinyon---	50	0	---
0431: Graley-----	---	---	---	---	---	---	-----	---	---	---
Chen-----	---	---	---	---	---	---	-----	---	---	---
McIvey-----	---	---	---	---	---	---	-----	---	---	---
0440: Lomoin-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Bijorja-----	---	---	---	---	---	---	-----	---	---	---
Lomoine-----	---	---	---	---	---	---	-----	---	---	---
0460: Okan-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	---	---	---	---	---	---	-----	---	---	---
0470: Rozara-----	---	---	---	---	---	---	-----	---	---	---
Cucamungo-----	1R	Moderate	Severe	Moderate	Slight	Moderate	singleleaf pinyon---	75	1	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
0471: Cucamungo-----	0R	Moderate	Severe	Moderate	Slight	Moderate	Utah juniper----- singleleaf pinyon---	54 54	0 0	Utah juniper, singleleaf pinyon
Hendap-----	0R	Moderate	Severe	Moderate	Slight	Moderate	Utah juniper----- singleleaf pinyon---	45 45	0 0	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
0480: Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Palinor-----	---	---	---	---	---	---	-----	---	---	---
0485: Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Parisa-----	---	---	---	---	---	---	-----	---	---	---
Hunnton-----	---	---	---	---	---	---	-----	---	---	---
0490: Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
0492: Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Peeko-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	---	---	---	---	---	---	-----	---	---	---
0494: Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
0496: Sodhouse-----	---	---	---	---	---	---	-----	---	---	---
Sodhouse-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0497:										
Sodhouse-----	---	---	---	---	---	---	-----	---	---	---
Sodhouse-----	---	---	---	---	---	---	-----	---	---	---
Palinor-----	---	---	---	---	---	---	-----	---	---	---
0501:										
Pharo-----	---	---	---	---	---	---	-----	---	---	---
Izar-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0503:										
Automal-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
0504:										
Automal-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
0510:										
Adobe-----	---	---	---	---	---	---	-----	---	---	---
Hardzem-----	5R	Severe	Severe	Severe	Moderate	Slight	white fir-----	41	5	---
Haunchee-----	---	---	---	---	---	---	-----	---	---	---
0511:										
Adobe-----	---	---	---	---	---	---	-----	---	---	---
Wardbay-----	---	---	---	---	---	---	-----	---	---	---
Hardol-----	---	---	---	---	---	---	-----	---	---	---
0512:										
Adobe-----	---	---	---	---	---	---	-----	---	---	---
Cavehill-----	0R	Severe	Severe	Moderate	Slight	Severe	singleleaf pinyon---	55	0	---
Wardbay-----	---	---	---	---	---	---	-----	---	---	---
0520:										
Haunchee-----	---	---	---	---	---	---	-----	---	---	---
Muiral-----	6R	Severe	Severe	Moderate	Moderate	Slight	Engelmann's spruce--	84	6	---
Wardbay-----	---	---	---	---	---	---	-----	---	---	---
0530:										
Wardbay-----	---	---	---	---	---	---	-----	---	---	---
Adobe-----	---	---	---	---	---	---	-----	---	---	---
Haunchee-----	---	---	---	---	---	---	-----	---	---	---
0532:										
Onkeyo-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordi-nation symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equip-ment limita-tion	Seedling mortal-ity	Wind-throw hazard	Plant competi-tion	Common trees	Site index	Volume of wood fiber m3/ha	
Pookaloo-----	0D	Moderate	Moderate	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
0540: Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Sycomat-----	---	---	---	---	---	---	-----	---	---	---
0541: Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Sheffit-----	---	---	---	---	---	---	-----	---	---	---
0550: Urmafot-----	---	---	---	---	---	---	-----	---	---	---
Bobs-----	---	---	---	---	---	---	-----	---	---	---
Urmafot-----	0R	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	25 25	0 0	---
0551: Urmafot-----	---	---	---	---	---	---	-----	---	---	---
Bobs-----	---	---	---	---	---	---	-----	---	---	---
552: Urmafot-----	---	---	---	---	---	---	-----	---	---	---
Pharo-----	---	---	---	---	---	---	-----	---	---	---
0554: Urmafot-----	---	---	---	---	---	---	-----	---	---	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Urmafot-----	0R	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	25 25	0 0	---
0561: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Urmafot-----	---	---	---	---	---	---	-----	---	---	---
Palinor-----	---	---	---	---	---	---	-----	---	---	---
0562: Bobs-----	---	---	---	---	---	---	-----	---	---	---
0563: Bobs-----	---	---	---	---	---	---	-----	---	---	---
Pyrat-----	---	---	---	---	---	---	-----	---	---	---
0575: Pookaloo-----	0R	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Cavehill-----	0R	Severe	Severe	Moderate	Slight	Severe	singleleaf pinyon---	55	0	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Windthrow hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0576:										
Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Onkeyo-----	---	---	---	---	---	---	-----	---	---	---
0582:										
Sheffit-----	---	---	---	---	---	---	-----	---	---	---
Sheffit-----	---	---	---	---	---	---	-----	---	---	---
Katelana-----	---	---	---	---	---	---	-----	---	---	---
0590:										
Upatad-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Segura-----	---	---	---	---	---	---	-----	---	---	---
0600:										
Onkeyo-----	---	---	---	---	---	---	-----	---	---	---
Amene-----	---	---	---	---	---	---	-----	---	---	---
Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
0610:										
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
0614:										
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
0617:										
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
Loray-----	---	---	---	---	---	---	-----	---	---	---
0620:										
Atlow-----	---	---	---	---	---	---	-----	---	---	---
Atlow-----	---	---	---	---	---	---	-----	---	---	---
0631:										
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0632:										
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
Zafod-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0634:										
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Izar-----	---	---	---	---	---	---	-----	---	---	---
0636:										
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	OD	Slight	Slight	Moderate	Slight	Moderate	Utah juniper-----	18	0	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0650:										
Mizpah-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
0671:										
Idway-----	---	---	---	---	---	---	-----	---	---	---
Mysol-----	---	---	---	---	---	---	-----	---	---	---
0672:										
Idway-----	---	---	---	---	---	---	-----	---	---	---
James Canyon----	---	---	---	---	---	---	-----	---	---	---
0680:										
Simon-----	---	---	---	---	---	---	-----	---	---	---
Graley-----	---	---	---	---	---	---	-----	---	---	---
Chen-----	---	---	---	---	---	---	-----	---	---	---
0691:										
Tarnach-----	---	---	---	---	---	---	-----	---	---	---
Tarnach-----	---	---	---	---	---	---	-----	---	---	---
Wesfil-----	---	---	---	---	---	---	-----	---	---	---
0692:										
Tarnach-----	---	---	---	---	---	---	-----	---	---	---
Upatad-----	---	---	---	---	---	---	-----	---	---	---
Wesfil-----	---	---	---	---	---	---	-----	---	---	---
0700:										
Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Tulase-----	---	---	---	---	---	---	-----	---	---	---
Lincoyer-----	---	---	---	---	---	---	-----	---	---	---
0720:										
Mysol-----	---	---	---	---	---	---	-----	---	---	---
Mysol-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0730:										
Idway-----	---	---	---	---	---	---	-----	---	---	---
Kawich-----	---	---	---	---	---	---	-----	---	---	---
Mysol-----	---	---	---	---	---	---	-----	---	---	---
0733:										
Idway-----	---	---	---	---	---	---	-----	---	---	---
Idway-----	---	---	---	---	---	---	-----	---	---	---
Mysol-----	---	---	---	---	---	---	-----	---	---	---
0740:										
Upatad-----	OR	Slight	Severe	Moderate	Slight	Moderate	Utah juniper----- singleleaf pinyon---	40	0	---
Pioche-----	OR	Moderate	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Tarnach-----	---	---	---	---	---	---	-----	---	---	---
0760:										
Playas-----	---	---	---	---	---	---	-----	---	---	---
0761:										
Umberland-----	---	---	---	---	---	---	-----	---	---	---
Umberland-----	---	---	---	---	---	---	-----	---	---	---
0762:										
Umberland-----	---	---	---	---	---	---	-----	---	---	---
Playas-----	---	---	---	---	---	---	-----	---	---	---
0763:										
Equis-----	---	---	---	---	---	---	-----	---	---	---
Umberland-----	---	---	---	---	---	---	-----	---	---	---
Duffer-----	---	---	---	---	---	---	-----	---	---	---
0764:										
Umberland-----	---	---	---	---	---	---	-----	---	---	---
Rubylake-----	---	---	---	---	---	---	-----	---	---	---
Orupa-----	---	---	---	---	---	---	-----	---	---	---
0765:										
Umberland-----	---	---	---	---	---	---	-----	---	---	---
Umberland-----	---	---	---	---	---	---	-----	---	---	---
Wendane-----	---	---	---	---	---	---	-----	---	---	---
0767:										
Umberland-----	---	---	---	---	---	---	-----	---	---	---
Umberland-----	---	---	---	---	---	---	-----	---	---	---
Orupa-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0781:										
Mysol-----	---	---	---	---	---	---	-----	---	---	---
Benin-----	---	---	---	---	---	---	-----	---	---	---
Wendane-----	---	---	---	---	---	---	-----	---	---	---
0800:										
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
Toano-----	---	---	---	---	---	---	-----	---	---	---
0801:										
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0804:										
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
Kawich-----	---	---	---	---	---	---	-----	---	---	---
Playas-----	---	---	---	---	---	---	-----	---	---	---
0807:										
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
0823:										
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Blimo-----	---	---	---	---	---	---	-----	---	---	---
0824:										
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Katelana-----	---	---	---	---	---	---	-----	---	---	---
0827:										
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
James Canyon---	---	---	---	---	---	---	-----	---	---	---
James Canyon---	---	---	---	---	---	---	-----	---	---	---
0828:										
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Wendane-----	---	---	---	---	---	---	-----	---	---	---
0830:										
Pharo-----	---	---	---	---	---	---	-----	---	---	---
Kzin-----	OR	Moderate	Severe	Severe	Slight	Moderate	Utah juniper-----	37	0	---
							singleleaf pinyon---	37	0	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
Pharo-----	---	---	---	---	---	---	-----	---	m3/ha ---	---
0842: Katelana-----	---	---	---	---	---	---	-----	---	---	---
Timpie-----	---	---	---	---	---	---	-----	---	---	---
0843: Katelana-----	---	---	---	---	---	---	-----	---	---	---
Kawich-----	---	---	---	---	---	---	-----	---	---	---
0845: Katelana-----	---	---	---	---	---	---	-----	---	---	---
Ragtown-----	---	---	---	---	---	---	-----	---	---	---
Timpie-----	---	---	---	---	---	---	-----	---	---	---
0847: Mazuma-----	---	---	---	---	---	---	-----	---	---	---
Blimo-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
0850: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
0851: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
0852: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Shabliss-----	---	---	---	---	---	---	-----	---	---	---
0854: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Shabliss-----	---	---	---	---	---	---	-----	---	---	---
0856: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Parisa-----	---	---	---	---	---	---	-----	---	---	---
0857: Palinor-----	---	---	---	---	---	---	-----	---	---	---
Shabliss-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
0858:										
Palinor-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
0870:										
Theriot-----	---	---	---	---	---	---	-----	---	---	---
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
0880:										
Duffer-----	---	---	---	---	---	---	-----	---	---	---
Duffer-----	---	---	---	---	---	---	-----	---	---	---
Kolda-----	---	---	---	---	---	---	-----	---	---	---
0881:										
Duffer-----	---	---	---	---	---	---	-----	---	---	---
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
0882:										
Duffer-----	---	---	---	---	---	---	-----	---	---	---
Kolda-----	---	---	---	---	---	---	-----	---	---	---
0894:										
Zerk-----	---	---	---	---	---	---	-----	---	---	---
Threesee-----	---	---	---	---	---	---	-----	---	---	---
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
0900:										
Zerk-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
0910:										
Ragtown-----	---	---	---	---	---	---	-----	---	---	---
Ragtown-----	---	---	---	---	---	---	-----	---	---	---
0912:										
Katelana-----	---	---	---	---	---	---	-----	---	---	---
Katelana-----	---	---	---	---	---	---	-----	---	---	---
0914:										
Katelana-----	---	---	---	---	---	---	-----	---	---	---
Benin-----	---	---	---	---	---	---	-----	---	---	---
Sheffit-----	---	---	---	---	---	---	-----	---	---	---
0917:										
Katelana-----	---	---	---	---	---	---	-----	---	---	---
Sheffit-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Ragtown-----	---	---	---	---	---	---	-----	---	---	---
0918:										
Katelana-----	---	---	---	---	---	---	-----	---	---	---
Zorravista-----	---	---	---	---	---	---	-----	---	---	---
Playas-----	---	---	---	---	---	---	-----	---	---	---
0930:										
Okan-----	---	---	---	---	---	---	-----	---	---	---
Toano-----	---	---	---	---	---	---	-----	---	---	---
Loray-----	---	---	---	---	---	---	-----	---	---	---
0932:										
Okan-----	---	---	---	---	---	---	-----	---	---	---
Pyrat-----	---	---	---	---	---	---	-----	---	---	---
0941:										
Sheffit-----	---	---	---	---	---	---	-----	---	---	---
Sheffit-----	---	---	---	---	---	---	-----	---	---	---
Zorravista-----	---	---	---	---	---	---	-----	---	---	---
0943:										
Sheffit-----	---	---	---	---	---	---	-----	---	---	---
Umberland-----	---	---	---	---	---	---	-----	---	---	---
0960:										
Gravier-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
0961:										
Gravier-----	---	---	---	---	---	---	-----	---	---	---
Piltown-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
0972:										
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
0974:										
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Pookaloo-----	OD	Moderate	Moderate	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
0975:										
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Windthrow hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
0980: Onkeyo-----	---	---	---	---	---	---	-----	---	---	---
Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
0990: Hyzen-----	---	---	---	---	---	---	-----	---	---	---
Zimbob-----	---	---	---	---	---	---	-----	---	---	---
0991: Hyzen-----	OR	Severe	Severe	Moderate	Slight	---	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Cavehill-----	OR	Severe	Severe	Moderate	Slight	Severe	singleleaf pinyon---	55	0	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
1000: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
1001: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
1002: Threesee-----	---	---	---	---	---	---	-----	---	---	---
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Threesee-----	---	---	---	---	---	---	-----	---	---	---
1003: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Hundraw-----	OD	Moderate	Moderate	Moderate	Slight	Moderate	Utah juniper-----	18	0	---
Tulase-----	---	---	---	---	---	---	-----	---	---	---
1004: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Parisa-----	---	---	---	---	---	---	-----	---	---	---
Tulase-----	---	---	---	---	---	---	-----	---	---	---
1005: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Zerk-----	---	---	---	---	---	---	-----	---	---	---
Parisa-----	---	---	---	---	---	---	-----	---	---	---
1006: Pyrat-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Blimo-----	---	---	---	---	---	---	-----	---	---	---
1007: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Parisa-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
1009: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Tulase-----	---	---	---	---	---	---	-----	---	---	---
Wintermute-----	---	---	---	---	---	---	-----	---	---	---
1020: Okan-----	---	---	---	---	---	---	-----	---	---	---
Eastwell-----	---	---	---	---	---	---	-----	---	---	---
Blimo-----	---	---	---	---	---	---	-----	---	---	---
1023: Okan-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
Katelana-----	---	---	---	---	---	---	-----	---	---	---
1030: Segura-----	---	---	---	---	---	---	-----	---	---	---
Bullump-----	---	---	---	---	---	---	-----	---	---	---
Hutchley-----	---	---	---	---	---	---	-----	---	---	---
1040: Segura-----	---	---	---	---	---	---	-----	---	---	---
Pioche-----	OX	Moderate	Moderate	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Chen-----	---	---	---	---	---	---	-----	---	---	---
1061: Pioche-----	OR	Moderate	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Cucamungo-----	OR	Moderate	Severe	Moderate	Slight	Moderate	Utah juniper----- singleleaf pinyon---	54 54	0 0	Utah juniper, singleleaf pinyon
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
1070: Zafod-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
1080: Cotant-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Segura-----	---	---	---	---	---	---	-----	---	---	---
1111: Parisa-----	---	---	---	---	---	---	-----	---	---	---
1120: Okan-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
1150: Adobe-----	---	---	---	---	---	---	-----	---	---	---
Wardbay-----	---	---	---	---	---	---	-----	---	---	---
Haunchee-----	---	---	---	---	---	---	-----	---	---	---
1161: Pharo-----	---	---	---	---	---	---	-----	---	---	---
Bobs-----	---	---	---	---	---	---	-----	---	---	---
Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
1171: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Gravier-----	---	---	---	---	---	---	-----	---	---	---
1172: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
1173: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Automal-----	---	---	---	---	---	---	-----	---	---	---
1174: Pyrat-----	---	---	---	---	---	---	-----	---	---	---
Tosser-----	---	---	---	---	---	---	-----	---	---	---
1180: Haunchee-----	---	---	---	---	---	---	-----	---	---	---
Cavehill-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	35 35	0 0	---
1181: Haunchee-----	---	---	---	---	---	---	-----	---	---	---
Halacan-----	---	---	---	---	---	---	-----	---	---	---
Wardbay-----	---	---	---	---	---	---	-----	---	---	---
1190: Upatad-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
Atlow-----	---	---	---	---	---	---	-----	---	m3/ha	---
Upatad-----	OR	Slight	Severe	Moderate	Slight	Moderate	Utah juniper----- singleleaf pinyon---	40	0	---
1191: Upatad-----	---	---	---	---	---	---	-----	---	---	---
Pioche-----	OR	Moderate	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
1200: Hardol-----	---	---	---	---	---	---	-----	---	---	---
Hardzem-----	5R	Severe	Severe	Severe	Moderate	Slight	white fir-----	41	5	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
1201: Hardol-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
Wardbay-----	---	---	---	---	---	---	-----	---	---	---
1210: Blimo-----	---	---	---	---	---	---	-----	---	---	---
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
1213: Blimo-----	---	---	---	---	---	---	-----	---	---	---
Threesee-----	---	---	---	---	---	---	-----	---	---	---
1215: Blimo-----	---	---	---	---	---	---	-----	---	---	---
Zorravista-----	---	---	---	---	---	---	-----	---	---	---
1216: Blimo-----	---	---	---	---	---	---	-----	---	---	---
Idway-----	---	---	---	---	---	---	-----	---	---	---
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
1220: Onkeyo-----	---	---	---	---	---	---	-----	---	---	---
Adobe-----	---	---	---	---	---	---	-----	---	---	---
Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
1230: Hardzem-----	5R	Severe	Severe	Severe	Moderate	Slight	white fir-----	41	5	---
Haunchee-----	---	---	---	---	---	---	-----	---	---	---
Wardbay-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordi-nation symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equip-ment limita-tion	Seedling mortal-ity	Wind-throw hazard	Plant competi-tion	Common trees	Site index	Volume of wood fiber m3/ha	
1240: Benin-----	---	---	---	---	---	---	-----	---	---	---
Benin-----	---	---	---	---	---	---	-----	---	---	---
1241: Benin-----	---	---	---	---	---	---	-----	---	---	---
Playas-----	---	---	---	---	---	---	-----	---	---	---
Benin-----	---	---	---	---	---	---	-----	---	---	---
1250: Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Pookaloo-----	0R	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
1270: Katelana-----	---	---	---	---	---	---	-----	---	---	---
Sheffit-----	---	---	---	---	---	---	-----	---	---	---
1271: Uvada-----	---	---	---	---	---	---	-----	---	---	---
Ragtown-----	---	---	---	---	---	---	-----	---	---	---
1272: Katelana-----	---	---	---	---	---	---	-----	---	---	---
Kawich-----	---	---	---	---	---	---	-----	---	---	---
1280: Sycomat-----	---	---	---	---	---	---	-----	---	---	---
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
1281: Sycomat-----	---	---	---	---	---	---	-----	---	---	---
Mazuma-----	---	---	---	---	---	---	-----	---	---	---
1290: Heist-----	---	---	---	---	---	---	-----	---	---	---
Blimo-----	---	---	---	---	---	---	-----	---	---	---
1300: Cavehill-----	1D	Severe	Severe	Moderate	Slight	Slight	singleleaf pinyon---	60	1	---
Haunchee-----	---	---	---	---	---	---	-----	---	---	---
Hardzem-----	5R	Severe	Severe	Severe	Moderate	Slight	white fir-----	41	5	---
1360: Toba-----	---	---	---	---	---	---	-----	---	---	---
Appian-----	---	---	---	---	---	---	-----	---	---	---
1370: Orupa-----	---	---	---	---	---	---	-----	---	---	---
Playas-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Boofuss-----	---	---	---	---	---	---	-----	---	---	---
1380: Hulderman-----	---	---	---	---	---	---	-----	---	---	---
Toba-----	---	---	---	---	---	---	-----	---	---	---
Benin-----	---	---	---	---	---	---	-----	---	---	---
1390: Wendane-----	---	---	---	---	---	---	-----	---	---	---
Mysol-----	---	---	---	---	---	---	-----	---	---	---
Toba-----	---	---	---	---	---	---	-----	---	---	---
1410: Threesee-----	---	---	---	---	---	---	-----	---	---	---
Tosser-----	---	---	---	---	---	---	-----	---	---	---
1411: Threesee-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
Okan-----	---	---	---	---	---	---	-----	---	---	---
1412: Threesee-----	---	---	---	---	---	---	-----	---	---	---
Idway-----	---	---	---	---	---	---	-----	---	---	---
1413: Idway-----	---	---	---	---	---	---	-----	---	---	---
Zorravista-----	---	---	---	---	---	---	-----	---	---	---
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
1414: Threesee-----	---	---	---	---	---	---	-----	---	---	---
Shantown-----	---	---	---	---	---	---	-----	---	---	---
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
1430: Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
1440: Boofuss-----	---	---	---	---	---	---	-----	---	---	---
Boofuss-----	---	---	---	---	---	---	-----	---	---	---
Equis-----	---	---	---	---	---	---	-----	---	---	---
1441: Boofuss-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Wendane-----	---	---	---	---	---	---	-----	---	---	---
Umberland-----	---	---	---	---	---	---	-----	---	---	---
1450: Piltown-----	---	---	---	---	---	---	-----	---	---	---
Kawich-----	---	---	---	---	---	---	-----	---	---	---
1460: Tosser-----	---	---	---	---	---	---	-----	---	---	---
Threesee-----	---	---	---	---	---	---	-----	---	---	---
1471: Timpie-----	---	---	---	---	---	---	-----	---	---	---
Kunzler-----	---	---	---	---	---	---	-----	---	---	---
Threesee-----	---	---	---	---	---	---	-----	---	---	---
1480: Tulase-----	---	---	---	---	---	---	-----	---	---	---
Linoyer-----	---	---	---	---	---	---	-----	---	---	---
1500: Tocele-----	---	---	---	---	---	---	-----	---	---	---
Loray-----	---	---	---	---	---	---	-----	---	---	---
1510: Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Cliffdown-----	---	---	---	---	---	---	-----	---	---	---
1520: Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Luning-----	---	---	---	---	---	---	-----	---	---	---
1521: Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Theriot-----	---	---	---	---	---	---	-----	---	---	---
1522: Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Smaug-----	---	---	---	---	---	---	-----	---	---	---
Badland-----	---	---	---	---	---	---	-----	---	---	---
1530: Theriot-----	---	---	---	---	---	---	-----	---	---	---
Theriot-----	---	---	---	---	---	---	-----	---	---	---
Izamatch-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
1531:										
Theriot-----	---	---	---	---	---	---	-----	---	---	---
Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
1532:										
Theriot-----	---	---	---	---	---	---	-----	---	---	---
Theriot-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
1540:										
Kyler-----	---	---	---	---	---	---	-----	---	---	---
Amtoft-----	---	---	---	---	---	---	-----	---	---	---
Amtoft-----	---	---	---	---	---	---	-----	---	---	---
1541:										
Kyler-----	---	---	---	---	---	---	-----	---	---	---
Kyler-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
1542:										
Kyler-----	---	---	---	---	---	---	-----	---	---	---
Amtoft-----	---	---	---	---	---	---	-----	---	---	---
Jericho-----	---	---	---	---	---	---	-----	---	---	---
1550:										
Jericho-----	---	---	---	---	---	---	-----	---	---	---
Jericho-----	---	---	---	---	---	---	-----	---	---	---
1560:										
Toano-----	---	---	---	---	---	---	-----	---	---	---
Timple-----	---	---	---	---	---	---	-----	---	---	---
1570:										
Jericho-----	---	---	---	---	---	---	-----	---	---	---
Xeric Torriorthents--	---	---	---	---	---	---	-----	---	---	---
1580:										
Armespan-----	---	---	---	---	---	---	-----	---	---	---
Jericho-----	---	---	---	---	---	---	-----	---	---	---
1581:										
Armespan-----	---	---	---	---	---	---	-----	---	---	---
Kyler-----	---	---	---	---	---	---	-----	---	---	---
Heist-----	---	---	---	---	---	---	-----	---	---	---
1582:										
Armespan-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Xeric Torriorthents--	---	---	---	---	---	---	-----	---	---	---
1590: Luning-----	---	---	---	---	---	---	-----	---	---	---
Luning-----	---	---	---	---	---	---	-----	---	---	---
Loray-----	---	---	---	---	---	---	-----	---	---	---
1591: Luning-----	---	---	---	---	---	---	-----	---	---	---
Izamatch-----	---	---	---	---	---	---	-----	---	---	---
Badland-----	---	---	---	---	---	---	-----	---	---	---
1600: Eaglepass-----	---	---	---	---	---	---	-----	---	---	---
Amtoft-----	---	---	---	---	---	---	-----	---	---	---
1610: Xeric Torriorthents--	---	---	---	---	---	---	-----	---	---	---
Armespan-----	---	---	---	---	---	---	-----	---	---	---
Badland-----	---	---	---	---	---	---	-----	---	---	---
1620: Kolda-----	---	---	---	---	---	---	-----	---	---	---
Duffer-----	---	---	---	---	---	---	-----	---	---	---
Sonoma-----	---	---	---	---	---	---	-----	---	---	---
1621: Kolda-----	---	---	---	---	---	---	-----	---	---	---
Rubylake-----	---	---	---	---	---	---	-----	---	---	---
Kolda-----	---	---	---	---	---	---	-----	---	---	---
1622: Kolda-----	---	---	---	---	---	---	-----	---	---	---
1623: Kolda-----	---	---	---	---	---	---	-----	---	---	---
Water-----	---	---	---	---	---	---	-----	---	---	---
1630: Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Cavehill-----	OR	Severe	Severe	Moderate	Slight	Severe	singleleaf pinyon---	55	0	---
Rock Outcrop---	---	---	---	---	---	---	-----	---	---	---
1631: Pookaloo-----	OR	Severe	Severe	Moderate	Slight	Slight	Utah juniper----- singleleaf pinyon---	20 20	0 0	---
Tecomar-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Wardbay-----	---	---	---	---	---	---	-----	---	---	---
1640: Jungo-----	---	---	---	---	---	---	-----	---	---	---
Jungo-----	---	---	---	---	---	---	-----	---	---	---
1650: Shantown-----	---	---	---	---	---	---	-----	---	---	---
Zorravista-----	---	---	---	---	---	---	-----	---	---	---
1651: Shantown-----	---	---	---	---	---	---	-----	---	---	---
Shantown-----	---	---	---	---	---	---	-----	---	---	---
1660: Wendane-----	---	---	---	---	---	---	-----	---	---	---
Logan-----	---	---	---	---	---	---	-----	---	---	---
1670: Wendane-----	---	---	---	---	---	---	-----	---	---	---
Logan-----	---	---	---	---	---	---	-----	---	---	---
Wendane-----	---	---	---	---	---	---	-----	---	---	---
1680: Rubylake-----	---	---	---	---	---	---	-----	---	---	---
Kolda-----	---	---	---	---	---	---	-----	---	---	---
Wendane-----	---	---	---	---	---	---	-----	---	---	---
1681: Wendane-----	---	---	---	---	---	---	-----	---	---	---
Logan-----	---	---	---	---	---	---	-----	---	---	---
Umberland-----	---	---	---	---	---	---	-----	---	---	---
1690: Krenka-----	---	---	---	---	---	---	-----	---	---	---
Secrepass-----	---	---	---	---	---	---	-----	---	---	---
1700: Heechee-----	---	---	---	---	---	---	-----	---	---	---
Rubicity-----	---	---	---	---	---	---	-----	---	---	---
Heechee-----	---	---	---	---	---	---	-----	---	---	---
1702: Heechee-----	---	---	---	---	---	---	-----	---	---	---
McIvey-----	---	---	---	---	---	---	-----	---	---	---
Rubicity-----	---	---	---	---	---	---	-----	---	---	---
1710: James Canyon-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Wendane-----	---	---	---	---	---	---	-----	---	---	---
1711: James Canyon----	---	---	---	---	---	---	-----	---	---	---
Wendane-----	---	---	---	---	---	---	-----	---	---	---
Wendane-----	---	---	---	---	---	---	-----	---	---	---
1720: Welch-----	---	---	---	---	---	---	-----	---	---	---
1721: Welch-----	---	---	---	---	---	---	-----	---	---	---
Welsum-----	---	---	---	---	---	---	-----	---	---	---
1722: Welch-----	---	---	---	---	---	---	-----	---	---	---
Slipback-----	---	---	---	---	---	---	-----	---	---	---
Welch-----	---	---	---	---	---	---	-----	---	---	---
1723: Welch-----	---	---	---	---	---	---	-----	---	---	---
Welch-----	---	---	---	---	---	---	-----	---	---	---
1730: McIvey-----	---	---	---	---	---	---	-----	---	---	---
Donna-----	---	---	---	---	---	---	-----	---	---	---
1731: McIvey-----	---	---	---	---	---	---	-----	---	---	---
Chen-----	---	---	---	---	---	---	-----	---	---	---
Donna-----	---	---	---	---	---	---	-----	---	---	---
1732: McIvey-----	---	---	---	---	---	---	-----	---	---	---
Stampede-----	---	---	---	---	---	---	-----	---	---	---
Heechee-----	---	---	---	---	---	---	-----	---	---	---
1740: Slipback-----	---	---	---	---	---	---	-----	---	---	---
Welch-----	---	---	---	---	---	---	-----	---	---	---
1741: Slipback-----	---	---	---	---	---	---	-----	---	---	---
Shantown-----	---	---	---	---	---	---	-----	---	---	---
Toba-----	---	---	---	---	---	---	-----	---	---	---
1750: Heechee-----	---	---	---	---	---	---	-----	---	---	---
Welch-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
Welch-----	---	---	---	---	---	---	-----	---	---	---
1760: Lykal-----	---	---	---	---	---	---	-----	---	---	---
Wendane-----	---	---	---	---	---	---	-----	---	---	---
James Canyon----	---	---	---	---	---	---	-----	---	---	---
1770: Donna-----	---	---	---	---	---	---	-----	---	---	---
McIvey-----	---	---	---	---	---	---	-----	---	---	---
Heechee-----	---	---	---	---	---	---	-----	---	---	---
1780: Schoer-----	---	---	---	---	---	---	-----	---	---	---
Welch-----	---	---	---	---	---	---	-----	---	---	---
1790: Donna-----	---	---	---	---	---	---	-----	---	---	---
Krenka-----	---	---	---	---	---	---	-----	---	---	---
McIvey-----	---	---	---	---	---	---	-----	---	---	---
1800: Chen-----	---	---	---	---	---	---	-----	---	---	---
Graley-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop----	---	---	---	---	---	---	-----	---	---	---
1810: Sumine-----	---	---	---	---	---	---	-----	---	---	---
Tusel-----	---	---	---	---	---	---	-----	---	---	---
Hapgood-----	---	---	---	---	---	---	-----	---	---	---
1820: Hussa-----	---	---	---	---	---	---	-----	---	---	---
Halleck-----	---	---	---	---	---	---	-----	---	---	---
Walsum-----	---	---	---	---	---	---	-----	---	---	---
1831: Enko-----	---	---	---	---	---	---	-----	---	---	---
Kelk-----	---	---	---	---	---	---	-----	---	---	---
Enko-----	---	---	---	---	---	---	-----	---	---	---
1840: Amene-----	---	---	---	---	---	---	-----	---	---	---
Belsac-----	---	---	---	---	---	---	-----	---	---	---
Chen-----	---	---	---	---	---	---	-----	---	---	---
1850: Bullump-----	---	---	---	---	---	---	-----	---	---	---

TABLE 7.--WOODLAND MANAGEMENT AND PRODUCTIVITY--Continued

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber m3/ha	
Cleavage-----	---	---	---	---	---	---	-----	---	---	---
Rock Outcrop----	---	---	---	---	---	---	-----	---	---	---
1861: Equis-----	---	---	---	---	---	---	-----	---	---	---
Devilsgait-----	---	---	---	---	---	---	-----	---	---	---
1862: Equis-----	---	---	---	---	---	---	-----	---	---	---
Equis-----	---	---	---	---	---	---	-----	---	---	---
Kolda-----	---	---	---	---	---	---	-----	---	---	---
1870: Denied Access---	---	---	---	---	---	---	-----	---	---	---
1880: Water-----	---	---	---	---	---	---	-----	---	---	---

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0070: Stewval-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Eastwell-----	Severe: cemented pan slope	Severe: slope	Severe: cemented pan slope	Severe: slope	Severe: slope	Severe: cemented pan slope
0071: Stewval-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Wesfil-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Rock Outcrop----	---	---	---	---	---	---
0080: Stewval-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0092: Wesfil-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: small stones depth to rock
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0098: Wesfil-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Tarnach-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Wesfil-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Severe: depth to rock	Severe: small stones depth to rock
0099: Wesfil-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Severe: depth to rock	Severe: small stones depth to rock
Armespan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones
Heist-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0100: Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
0101: Toano-----	Slight	Slight	Slight	Slight	Slight	Slight
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
0103: Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
Playas-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess salt ponding droughty
0111: Gravier-----	Slight	Slight	Slight	Moderate: slope	Slight	Severe: small stones droughty
Armespan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones
113: Gravier-----	Moderate: slope cutbanks cave	Moderate: slope	Moderate: slope	Moderate: slope	Moderate: slope	Severe: small stones droughty
Gravier-----	Moderate: slope cutbanks cave	Moderate: slope	Moderate: slope	Moderate: slope	Moderate: slope	Severe: small stones droughty
Jericho-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
0116: Gravier-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
Izamatc-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
Loray-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
0118: Gravier-----	Slight	Slight	Slight	Slight	Slight	Severe: small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0119: Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
Linoyer-----	Slight	Slight	Slight	Moderate: slope	Slight	Slight
0120: Izamatch-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: small stones droughty
Armespan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones
Cliffdown-----	Slight	Slight	Slight	Slight	Slight	Severe: small stones droughty
0122: Gravier-----	Slight	Slight	Slight	Moderate: slope	Slight	Severe: droughty
Izamatch-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: small stones droughty
0130: Tooele-----	Slight	Slight	Slight	Slight	Slight	Slight
Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
0140: Gollaher-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones droughty
Belsac-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones
0151: Hopeka-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones droughty
Amene-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Rock Outcrop----	---	---	---	---	---	---
0154: Hopeka-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Tecomar-----	Severe: large stones slope depth to rock	Severe: large stones small stones droughty				
0160: Saltair-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: frost action low strength wetness	Severe: excess salt wetness
Kawich-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: slope	Moderate: excess salt slope droughty
0161: Saltair-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: frost action low strength wetness	Severe: excess salt wetness
Playas-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess salt ponding droughty
0171: Loray-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: droughty
Gravier-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: small stones droughty
Toano-----	Slight	Slight	Slight	Slight	Slight	Slight
0173: Cliffdown-----	Slight	Slight	Slight	Slight	Slight	Severe: small stones droughty
Armespan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones
Izamatch-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: small stones droughty
0174: Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones small stones droughty
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0175: Loray-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones small stones droughty
0176: Loray-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
0181: Peeko-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Dewar-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Peeko-----	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope
0182: Peeko-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Peeko-----	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope
Gance-----	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Severe: small stones droughty
0183: Peeko-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Enko-----	Moderate: slope	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope
Izar-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0185: Peeko-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Peeko-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Chiara-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0203: Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
Pockaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Pharo-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
0210: Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
Hardhat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Slight
Loray-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: slope	Severe: droughty
0211: Valmy-----	Slight	Slight	Slight	Slight	Slight	Moderate: excess salt
Enko-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
0230: Zafod-----	Severe: slope cutbanks cave	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
Pyrat-----	Severe: slope cutbanks cave	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones
Palinor-----	Severe: cemented pan slope cutbanks cave	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: slope small stones droughty
0231: Dacker-----	Severe: cemented pan	Moderate: cemented pan shrink-swell	Severe: cemented pan	Moderate: cemented pan shrink-swell	Severe: low strength	Moderate: cemented pan
Nevador-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope
Kelk-----	Slight	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Slight
0240: Hundraw-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Cobre-----	Moderate: slope depth to rock	Moderate: slope	Moderate: slope depth to rock	Severe: slope	Moderate: frost action slope	Moderate: slope depth to rock
0241: Hundraw-----	Severe: depth to rock	Moderate: slope depth to rock	Severe: depth to rock	Severe: slope	Moderate: frost action slope depth to rock	Severe: depth to rock
Peeko-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Kzin-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
0242: Cobre-----	Moderate: slope depth to rock	Moderate: slope	Moderate: slope depth to rock	Severe: slope	Moderate: frost action slope	Moderate: slope depth to rock
Hundraw-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock
Chiara-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
0244: Hundraw-----	Severe: depth to rock	Moderate: slope depth to rock	Severe: depth to rock	Severe: slope	Moderate: frost action slope depth to rock	Severe: depth to rock
Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
0250: Izar-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Holborn-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock
Kzin-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
0251: Izar-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Severe: depth to rock	Severe: small stones depth to rock

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Shabliiss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
0252: Izar-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: small stones depth to rock
Hundraw-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0260: Dewar-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Chiara-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Hunnton-----	Severe: cemented pan	Severe: shrink-swell	Severe: cemented pan shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: cemented pan
0270: Chiara-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Kelk-----	Slight	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: shrink-swell slope	Moderate: frost action low strength shrink-swell	Slight
Kelk-----	Slight	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding low strength shrink-swell	Slight
0273: Chiara-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Dewar-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Enko-----	Slight	Slight	Slight	Moderate: slope	Moderate: frost action	Slight
0276: Chiara-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Peeko-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Urmafot-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0279: Chiara-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Parisa-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: droughty
Enko-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
0280: Oupico-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan	Moderate: frost action cemented pan	Moderate: cemented pan
Enko-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Slight
0282: Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0310: Sonoma-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action low strength	Severe: flooding
Devilsgait-----	Severe: wetness cutbanks cave	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding low strength wetness	Severe: flooding wetness
Sonoma-----	Moderate: flooding wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: flooding frost action low strength	Moderate: flooding
0311: Sonoma-----	Slight	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: shrink-swell	Severe: frost action low strength	Slight
Kelk-----	Slight	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding low strength shrink-swell	Slight
0330: Kzin-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
Holborn-----	Severe: depth to rock	Moderate: slope depth to rock	Severe: depth to rock	Severe: slope	Moderate: frost action slope depth to rock	Severe: depth to rock

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Kzin-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
0331: Kzin-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
Cobre-----	Moderate: slope depth to rock	Moderate: slope	Moderate: slope depth to rock	Severe: slope	Moderate: frost action slope	Moderate: slope depth to rock
Jackpot-----	Severe: depth to rock	Moderate: slope depth to rock	Severe: depth to rock	Severe: slope	Moderate: frost action slope depth to rock	Severe: depth to rock
0333: Kzin-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
Holborn-----	Severe: depth to rock	Moderate: slope depth to rock	Severe: depth to rock	Severe: slope	Moderate: frost action slope depth to rock	Severe: depth to rock
Onkeyo-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones droughty
0340: Shuttle-----	Moderate: cemented pan	Slight	Moderate: cemented pan	Moderate: slope	Slight	Slight
Hardhat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Slight
Shuttle-----	Slight	Slight	Slight	Moderate: slope	Slight	Slight
0350: Jericho-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Jericho-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
0351: Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
Eastwell-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: cemented pan	Severe: cemented pan

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0355: Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Okon-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
Okon-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0370: Toano-----	Slight	Slight	Slight	Slight	Slight	Slight
Tulase-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
0371: Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
Okon-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0373: Timpie-----	Slight	Slight	Slight	Slight	Severe: frost action	Moderate: droughty
Pilt-down-----	Slight	Slight	Slight	Moderate: slope	Slight	Slight
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
0374: Heist-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Okon-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
0375: Toano-----	Slight	Slight	Slight	Slight	Slight	Slight
Heist-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
0380: Cobre-----	Moderate: slope depth to rock	Moderate: slope	Moderate: slope depth to rock	Severe: slope	Moderate: frost action slope	Moderate: slope depth to rock
Izar-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Severe: depth to rock	Severe: small stones depth to rock
Jackpot-----	Severe: depth to rock	Moderate: slope depth to rock	Severe: depth to rock	Severe: slope	Moderate: frost action slope depth to rock	Severe: depth to rock

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0381: Cobre-----	Moderate: slope depth to rock	Moderate: slope	Moderate: slope depth to rock	Severe: slope	Moderate: frost action slope	Moderate: slope depth to rock
Hundraw-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock
Jackpot-----	Severe: depth to rock	Moderate: depth to rock	Severe: depth to rock	Moderate: depth to rock	Moderate: frost action depth to rock	Severe: depth to rock
0382: Cobre-----	Moderate: slope depth to rock	Moderate: slope	Moderate: slope depth to rock	Severe: slope	Moderate: frost action slope	Moderate: slope depth to rock
Enko-----	Slight	Slight	Slight	Moderate: slope	Moderate: frost action	Slight
0390: Hardol-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
Muiral-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope
Rubble Land----	Severe: large stones slope	Severe: large stones slope	Severe: large stones slope	Severe: large stones slope	Severe: large stones slope	Severe: large stones small stones droughty
0392: Hardol-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
Muiral-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope
Onkeyo-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones droughty
0400: Cleavage-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Cleavage-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: small stones depth to rock
Sumine-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
410: Jericho-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
411: Jericho-----	Severe: cemented pan slope cutbanks cave	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: slope small stones droughty
Armespan-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Severe: small stones
0420: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
Palinor-----	Severe: cemented pan slope cutbanks cave	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: slope small stones droughty
0421: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
0422: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Zimbob-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0424: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Hundraw-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0426: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
0429: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Automal-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
0430: Graley-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: large stones slope depth to rock
Pioche-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Cropper-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: large stones slope small stones
0431: Graley-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock
Chen-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
McIvey-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: large stones slope small stones
0440: Lomcine-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Bijorja-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
Lomoin-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0460: Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
Automal-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
Hundraw-----	Severe: depth to rock	Moderate: depth to rock	Severe: depth to rock	Moderate: slope depth to rock	Moderate: frost action depth to rock	Severe: depth to rock
0470: Rozara-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Cucamungo-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
Rock Outcrop----	---	---	---	---	---	---
0471: Cucamungo-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
Hendap-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones droughty
Rock Outcrop----	---	---	---	---	---	---
0480: Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
0485: Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Parisa-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Hunnton-----	Severe: cemented pan	Severe: shrink-swell	Severe: cemented pan shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: cemented pan
0490: Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
0492: Wintermute-----	Severe: cutbanks cave	Moderate: large stones slope	Moderate: large stones slope	Severe: slope	Moderate: large stones slope	Moderate: large stones small stones droughty
Peeko-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Hundraw-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock
0494: Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones small stones droughty
Pyrat-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: droughty
0496: Sodhouse-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Sodhouse-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Moderate: small stones
0497: Sodhouse-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Sodhouse-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan
0501: Pharo-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Izar-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0503: Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
0504: Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
0510: Adobe-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Hardzem-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
Haunchee-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0511: Adobe-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Wardbay-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
Hardol-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
0512: Adobe-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Cavehill-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones
Wardbay-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
0520: Haunchee-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Muiral-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope
Wardbay-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
0530: Wardbay-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
Adobe-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Haunchee-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
0532: Onkeyo-----	Severe: slope depth to rock	Severe: slope small stones droughty				
Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
0540: Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Sycomat-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: droughty
0541: Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: excess salt
0550: Urmafot-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Bobs-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Urmafot-----	Severe: cemented pan slope					
0551: Urmafot-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Bobs-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
552: Urmafot-----	Severe: cemented pan	Severe: cemented pan small stones				
Pharo-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
0554: Urmafot-----	Severe: cemented pan slope	Severe: cemented pan slope small stones				
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
Urmafot-----	Severe: cemented pan slope	Severe: slope small stones droughty				
0561: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
Urmafot-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones
Palinor-----	Severe: cemented pan slope cutbanks cave	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: slope small stones droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0562: Bobs-----	Severe: cemented pan	Severe: cemented pan small stones				
0563: Bobs-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Pyrat-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Severe: small stones
0575: Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Cavehill-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones
Rock Outcrop---	---	---	---	---	---	---
0576: Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
Onkeyo-----	Severe: slope depth to rock	Severe: slope small stones droughty				
0582: Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Slight
Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: excess salt
Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
0590: Upatad-----	Severe: large stones slope depth to rock	Severe: slope small stones depth to rock				
Segura-----	Severe: slope depth to rock	Severe: large stones slope depth to rock				

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0600: Onkeyo-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones droughty
Amene-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Pookaloo-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0610: Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
Eastwell-----	Severe: cemented pan	Moderate: cemented pan slope	Severe: cemented pan	Severe: slope	Moderate: cemented pan slope	Severe: cemented pan
0614: Wintermute-----	Severe: cutbanks cave	Moderate: large stones slope	Moderate: large stones slope	Severe: slope	Moderate: large stones slope	Moderate: large stones small stones droughty
Eastwell-----	Severe: cemented pan	Moderate: cemented pan slope	Severe: cemented pan	Severe: slope	Moderate: cemented pan slope	Severe: cemented pan
Zerk-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
0617: Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
Zerk-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
Loray-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
0620: Atlow-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Atlow-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Severe: depth to rock	Severe: small stones depth to rock
0631: Eastwell-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: cemented pan	Severe: cemented pan

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0632: Eastwell-----	Severe: cemented pan	Moderate: cemented pan slope	Severe: cemented pan	Severe: slope	Moderate: cemented pan slope	Severe: cemented pan
Zafod-----	Severe: cutbanks cave	Moderate: large stones slope	Moderate: cemented pan large stones slope	Severe: slope	Moderate: frost action large stones slope	Severe: droughty
0634: Eastwell-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: cemented pan	Severe: cemented pan
Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Izar-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: small stones depth to rock
0636: Eastwell-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: cemented pan	Severe: cemented pan small stones
Hundraw-----	Severe: depth to rock	Moderate: slope depth to rock	Severe: depth to rock	Severe: slope	Moderate: frost action slope depth to rock	Severe: depth to rock
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0650: Mizpah-----	Moderate: too clayey depth to rock	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: depth to rock
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones small stones droughty
0671: Idway-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
Mysol-----	Severe: cutbanks cave	Moderate: shrink-swell	Slight	Moderate: shrink-swell	Severe: low strength	Slight

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0672: Idway-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
James Canyon----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Slight
0680: Simon-----	Severe: slope	Severe: shrink-swell slope	Severe: shrink-swell slope	Severe: shrink-swell slope	Severe: shrink-swell slope	Severe: slope
Graley-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock
Chen-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0691: Tarnach-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Tarnach-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Wesfil-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0692: Tarnach-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Upatad-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Wesfil-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0700: Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Tulase-----	Slight	Slight	Slight	Moderate: slope	Moderate: frost action	Slight
Linoyer-----	Slight	Slight	Slight	Moderate: slope	Slight	Slight
0720: Mysol-----	Severe: cutbanks cave	Moderate: shrink-swell	Slight	Moderate: shrink-swell	Severe: low strength	Slight

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Mysol----- 0730: Idway-----	Severe: cutbanks cave	Moderate: shrink-swell	Slight	Moderate: shrink-swell	Severe: low strength	Slight
Kawich-----	Severe: slope cutbanks cave	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
Mysol----- 0733: Idway-----	Severe: cutbanks cave	Moderate: shrink-swell	Slight	Moderate: shrink-swell	Severe: low strength	Slight
Idway-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
Mysol----- 0740: Upatad-----	Severe: cutbanks cave	Moderate: shrink-swell	Slight	Moderate: shrink-swell	Severe: low strength	Slight
Pioche-----	Severe: large stones slope depth to rock	Severe: large stones slope small stones				
Tarnach-----	Severe: slope depth to rock	Severe: slope depth to rock				
0760: Playas-----	Severe: ponding	Severe: flooding shrink-swell ponding	Severe: flooding shrink-swell ponding	Severe: flooding shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess salt ponding droughty
0761: Umberland-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess sodium excess salt ponding
Umberland-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: frost action low strength shrink-swell	Severe: excess sodium excess salt too clayey
0762: Umberland-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess sodium excess salt ponding
Playas-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess salt ponding droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0763: Equis-----	Moderate: too clayey wetness	Severe: flooding shrink-swell	Severe: flooding shrink-swell	Severe: flooding shrink-swell	Severe: low strength shrink-swell	Severe: excess sodium excess salt too clayey
Umberland-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: frost action low strength shrink-swell	Severe: excess sodium excess salt too clayey
Duffer-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action low strength	Severe: excess salt
0764: Umberland-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: frost action low strength shrink-swell	Severe: excess sodium excess salt
Rubylake-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: frost action	Moderate: excess salt wetness
Orupa-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Slight
0765: Umberland-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess sodium excess salt ponding
Umberland-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: frost action low strength shrink-swell	Severe: excess sodium excess salt too clayey
Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
0767: Umberland-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: frost action low strength shrink-swell	Severe: excess sodium excess salt too clayey
Umberland-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess sodium excess salt ponding
Orupa-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: too clayey
0781: Mysol-----	Severe: cutbanks cave	Moderate: shrink-swell	Slight	Moderate: shrink-swell	Severe: low strength	Slight
Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
0800: Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
Toano-----	Slight	Slight	Slight	Slight	Slight	Slight
0801: Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
Okan-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
0804: Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
Kawich-----	Severe: slope cutbanks cave	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
Playas-----	Severe: ponding	Severe: flooding shrink-swell ponding	Severe: flooding shrink-swell ponding	Severe: flooding shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess salt ponding droughty
0807: Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
0823: Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Pyrat-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
Blimo-----	Slight	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
0824: Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0827: Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
James Canyon----	Moderate: wetness	Moderate: shrink-swell flooding	Moderate: shrink-swell wetness flooding	Moderate: shrink-swell flooding	Severe: flooding frost action	Moderate: flooding wetness
James Canyon----	Moderate: wetness	Moderate: shrink-swell flooding	Moderate: shrink-swell wetness flooding	Moderate: shrink-swell flooding	Severe: flooding frost action	Moderate: flooding wetness
0828: Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Pyrat-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
0830: Pharo-----	Severe: slope cutbanks cave	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
Kzin-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
Pharo-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
0842: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
Timpie-----	Slight	Slight	Slight	Slight	Severe: frost action	Moderate: droughty
0843: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
Kawich-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: excess salt droughty
0845: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
Ragtown-----	Moderate: too clayey	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Severe: low strength	Moderate: excess salt
Timpie-----	Slight	Slight	Slight	Slight	Severe: frost action	Moderate: droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0847: Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
Blimo-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones small stones droughty
0850: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
0851: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Zimbob-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
0852: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
0854: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Automal-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan slope	Severe: cemented pan	Severe: slope	Moderate: frost action cemented pan slope	Severe: cemented pan
0856: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Parisa-----	Severe: cemented pan	Moderate: cemented pan slope	Severe: cemented pan	Severe: slope	Moderate: frost action cemented pan slope	Severe: droughty
0857: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Shabliss-----	Severe: cemented pan cutbanks cave	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: cemented pan
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
0858: Palinor-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
0870: Theriot-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Zimbob-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
0880: Duffer-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action low strength	Severe: excess salt
Duffer-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action low strength	Severe: excess salt
Kolda-----	Severe: wetness	Severe: shrink-swell wetness	Severe: shrink-swell wetness	Severe: shrink-swell wetness	Severe: low strength shrink-swell wetness	Severe: wetness

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0881: Duffer-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action low strength	Severe: excess salt
Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
0882: Duffer-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action low strength	Severe: excess salt
Kolda-----	Severe: wetness	Severe: shrink-swell wetness	Severe: shrink-swell wetness	Severe: shrink-swell wetness	Severe: low strength shrink-swell wetness	Severe: wetness
0894: Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
Threesee-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: small stones
Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
0900: Zerk-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
0910: Ragtown-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Slight
Ragtown-----	Moderate: too clayey	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Severe: low strength	Moderate: excess salt
0912: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
0914: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: excess salt
0917: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: excess salt
Ragtown-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Slight
0918: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
Zorravista-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
Playas-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess salt ponding droughty
0930: Okan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: droughty
Toano-----	Slight	Slight	Slight	Slight	Slight	Slight
Loray-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
0932: Okan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: droughty
Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
0941: Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: excess salt
Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Slight
Zorravista-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
0943: Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: excess salt
Umberland-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: frost action low strength shrink-swell	Severe: excess sodium excess salt too clayey
0960: Gravier-----	Slight	Slight	Slight	Moderate: slope	Slight	Severe: small stones droughty
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
0961: Gravier-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
Piltown-----	Slight	Slight	Slight	Moderate: slope	Slight	Slight
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
0972: Zimbob-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Zimbob-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
0974: Zimbob-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
0975: Zimbob-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
0980: Onkeyo-----	Severe: slope depth to rock	Severe: slope small stones droughty				
Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Zimbob-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
0990: Hyzen-----	Severe: slope depth to rock	Severe: slope large stones small stones				
Zimbob-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
0991: Hyzen-----	Severe: slope depth to rock	Severe: slope large stones small stones				
Cavehill-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
1000: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
Zerk-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
1001: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
Eastwell-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: cemented pan	Severe: cemented pan
1002: Threese-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: small stones
Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Threese-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: small stones
1003: Pyrat-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
Hundraw-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock
Tulase-----	Slight	Slight	Slight	Moderate: slope	Moderate: frost action	Slight
1004: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Parisa-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: droughty
Tulase-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
1005: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Zerk-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
Parisa-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: droughty
1006: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Blimo-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1007: Pyrat-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
Parisa-----	Severe: cemented pan	Moderate: cemented pan slope	Severe: cemented pan	Severe: slope	Moderate: frost action cemented pan slope	Severe: droughty
Automal-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
1009: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Tulase-----	Slight	Slight	Slight	Moderate: slope	Moderate: frost action	Slight
Wintermute-----	Severe: cutbanks cave	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: large stones	Moderate: large stones small stones droughty
1020: Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
Eastwell-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: cemented pan	Severe: cemented pan
Blimo-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: droughty
1023: Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
1030: Segura-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock
Bullump-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones
Hutchley-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1040: Segura-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: large stones slope depth to rock
Pioche-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Chen-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
1061: Pioche-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Cucamungo-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones depth to rock
Rock Outcrop---	---	---	---	---	---	---
1070: Zafod-----	Severe: cutbanks cave	Moderate: large stones slope	Moderate: cemented pan large stones slope	Severe: slope	Moderate: frost action large stones slope	Severe: droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: droughty
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
1080: Cotant-----	Severe: depth to rock	Severe: shrink-swell	Severe: shrink-swell depth to rock	Severe: shrink-swell slope	Severe: low strength shrink-swell	Severe: depth to rock
Segura-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Severe: depth to rock	Severe: large stones depth to rock
1111: Parisa-----	Severe: cemented pan	Moderate: cemented pan	Severe: cemented pan	Moderate: cemented pan slope	Moderate: frost action cemented pan	Severe: droughty
1120: Okan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: droughty
Automal-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1150: Adobe-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Wardbay-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
Haunchee-----	Severe: slope depth to rock	Severe: large stones slope small stones				
1161: Pharo-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
Bobs-----	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan
Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
1171: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
Gravier-----	Slight	Slight	Slight	Moderate: slope	Slight	Severe: small stones droughty
1172: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones
Automal-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Severe: small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
1173: Pyrat-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
Automal-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1200: Hardol-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
Hardzem-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
Rock Outcrop----	---	---	---	---	---	---
1201: Hardol-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
Rock Outcrop----	---	---	---	---	---	---
Wardbay-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
1210: Blimo-----	Slight	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
1213: Blimo-----	Slight	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
Threesee-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
1215: Blimo-----	Slight	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: droughty
Zorravista-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: slope	Moderate: slope droughty
1216: Blimo-----	Slight	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
Idway-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
1220: Onkeyo-----	Severe: slope depth to rock	Severe: slope small stones droughty				

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Adobe-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
1230: Hardzem-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones
Haunchee-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Wardbay-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
1240: Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
1241: Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
Playas-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess salt ponding droughty
Benin-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
1250: Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
1270: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
Sheffit-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: excess salt

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1271: Uvada-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Severe: excess sodium
Ragtown-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Slight
1272: Katelana-----	Slight	Moderate: shrink-swell	Severe: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Moderate: excess salt
Kawich-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: slope	Moderate: excess salt slope droughty
1280: Sycomat-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
1281: Sycomat-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
Mazuma-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Slight
1290: Heist-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Blimo-----	Slight	Slight	Slight	Slight	Moderate: frost action	Moderate: small stones droughty
1300: Cavehill-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: large stones slope small stones
Haunchee-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Hardzem-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
1360: Toba-----	Severe: wetness cutbanks cave	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Severe: flooding
Appian-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: excess sodium
1370: Orupa-----	Moderate: too clayey	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Slight

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Playas-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess salt ponding droughty
Boofuss-----	Severe: ponding	Severe: flooding shrink-swell ponding	Severe: flooding ponding	Severe: flooding shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess sodium excess salt ponding
1380: Hulderman-----	Severe: wetness cutbanks cave	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Severe: flooding
Toba-----	Severe: wetness cutbanks cave	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Severe: flooding
Benin-----	Moderate: too clayey	Severe: flooding shrink-swell	Severe: flooding shrink-swell	Severe: flooding shrink-swell	Severe: low strength shrink-swell	Severe: excess salt
1390: Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
Mysol-----	Severe: cutbanks cave	Moderate: shrink-swell	Slight	Moderate: shrink-swell	Severe: low strength	Slight
Toba-----	Severe: wetness cutbanks cave	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Severe: flooding
1410: Threese-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
Tosser-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: small stones droughty
1411: Threese-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: small stones
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Moderate: small stones
Okan-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Moderate: flooding frost action	Moderate: droughty
1412: Threese-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: small stones
Idway-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty
1413: Idway-----	Severe: cutbanks cave	Slight	Slight	Slight	Moderate: frost action	Moderate: droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Zorravista-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: slope	Moderate: slope droughty
Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
1414: Threesee-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: small stones
Shantown-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
1430: Pockaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Tecomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				
Rock Outcrop----	---	---	---	---	---	---
1440: Boofuss-----	Severe: ponding	Severe: flooding shrink-swell ponding	Severe: flooding ponding	Severe: flooding shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess sodium excess salt ponding
Boofuss-----	Severe: ponding	Severe: flooding shrink-swell ponding	Severe: flooding ponding	Severe: flooding shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess sodium excess salt ponding
Equis-----	Severe: wetness	Severe: flooding shrink-swell wetness	Severe: flooding shrink-swell wetness	Severe: flooding shrink-swell wetness	Severe: low strength shrink-swell	Severe: excess sodium excess salt too clayey
1441: Boofuss-----	Severe: ponding	Severe: flooding shrink-swell ponding	Severe: flooding ponding	Severe: flooding shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: excess sodium excess salt ponding
Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
Umberland-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: frost action low strength shrink-swell	Severe: excess sodium excess salt too clayey
1450: Piltown-----	Slight	Slight	Slight	Moderate: slope	Slight	Slight

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Kawich-----	Severe: cutbanks cave	Moderate: slope	Moderate: slope	Severe: slope	Moderate: slope	Moderate: excess salt slope droughty
1460: Tosser-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: small stones droughty
Threesee-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
1471: Timpie-----	Slight	Slight	Slight	Slight	Severe: frost action	Moderate: droughty
Kunzler-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Threesee-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: small stones
1480: Tulase-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
Linoyer-----	Slight	Slight	Slight	Slight	Slight	Slight
1500: Tooole-----	Slight	Slight	Slight	Slight	Slight	Slight
Loray-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
1510: Izamatch-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
Cliffdown-----	Slight	Slight	Slight	Slight	Slight	Severe: small stones droughty
1520: Izamatch-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
Izamatch-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: droughty
Luning-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: droughty
1521: Izamatch-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: droughty
Izamatch-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: droughty
Theriot-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1541: Kyler-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Kyler-----	Severe: depth to rock	Severe: depth to rock	Severe: depth to rock	Severe: slope depth to rock	Severe: depth to rock	Severe: small stones depth to rock
Rock Outcrop---	---	---	---	---	---	---
1542: Kyler-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Amtoft-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Jericho-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
1550: Jericho-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan slope	Severe: cemented pan	Severe: cemented pan small stones droughty
Jericho-----	Severe: cemented pan slope cutbanks cave	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: cemented pan slope	Severe: slope small stones droughty
1560: Toano-----	Slight	Slight	Slight	Slight	Slight	Slight
Timpie-----	Slight	Slight	Slight	Slight	Severe: frost action	Moderate: droughty
1570: Jericho-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
Xeric Torriorthents--	Severe: slope cutbanks cave	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope droughty
1580: Armespan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones
Jericho-----	Severe: cemented pan cutbanks cave	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan	Severe: cemented pan small stones droughty
1581: Armespan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Kyler-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Heist-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
1582: Armespan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones
Xeric Torriorthents--	Severe: slope cutbanks cave	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope droughty
1590: Luning-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: droughty
Luning-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: droughty
Loray-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
1591: Luning-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Severe: droughty
Izamatch-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Severe: small stones droughty
Badland-----	Severe: slope	Severe: shrink-swell slope	Severe: shrink-swell slope	Severe: shrink-swell slope	Severe: low strength shrink-swell slope	Severe: excess salt slope
1600: Eaglepass-----	Severe: slope depth to rock	Severe: slope small stones droughty				
Amtoft-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
1610: Xeric Torriorthents--	Severe: slope cutbanks cave	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope droughty
Armespan-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Moderate: frost action	Severe: small stones
Badland-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope depth to rock droughty

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1620: Kolda-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: ponding
Duffer-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Severe: excess salt
Sonoma-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action low strength	Severe: flooding
1621: Kolda-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: ponding
Rubylake-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: frost action	Severe: excess salt
Kolda-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: ponding
1622: Kolda-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: ponding
1623: Kolda-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: ponding
Water-----	---	---	---	---	---	---
1630: Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Cavehill-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones
Rock Outcrop----	---	---	---	---	---	---
1631: Pookaloo-----	Severe: slope depth to rock	Severe: slope small stones depth to rock				
Tacomar-----	Severe: large stones slope depth to rock	Severe: slope small stones droughty				

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Wardbay-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones droughty
1640: Jungo-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones
Jungo-----	Moderate: slope	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Severe: small stones
1650: Shantown-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
Zorravista-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
1651: Shantown-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
Shantown-----	Severe: cutbanks cave	Slight	Slight	Moderate: slope	Slight	Moderate: small stones droughty
1660: Wendane-----	Moderate: flooding wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: flooding frost action	Severe: excess sodium excess salt
Logan-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action low strength	Moderate: flooding wetness
1670: Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
Logan-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action low strength	Moderate: flooding wetness
Wendane-----	Moderate: flooding wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: flooding frost action	Severe: excess sodium excess salt
1680: Rubylake-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: frost action	Severe: excess salt
Kolda-----	Severe: ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: shrink-swell ponding	Severe: low strength shrink-swell ponding	Severe: ponding
Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1681: Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
Logan-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action low strength	Moderate: flooding wetness
Umberland-----	Moderate: too clayey wetness	Severe: shrink-swell	Severe: shrink-swell	Severe: shrink-swell	Severe: frost action low strength shrink-swell	Severe: excess sodium excess salt
1690: Krenka-----	Moderate: slope	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope
Secrepass-----	Moderate: too clayey	Moderate: shrink-swell	Slight	Moderate: shrink-swell slope	Moderate: frost action shrink-swell	Moderate: small stones droughty
1700: Heechee-----	Moderate: large stones slope	Moderate: large stones slope	Moderate: large stones slope	Severe: slope	Moderate: frost action large stones slope	Moderate: large stones small stones droughty
Rubicity-----	Moderate: slope	Moderate: slope	Moderate: slope	Severe: slope	Moderate: frost action slope	Moderate: slope small stones droughty
Heechee-----	Moderate: large stones slope	Moderate: large stones slope	Moderate: large stones slope	Severe: slope	Moderate: frost action large stones slope	Severe: small stones
1702: Heechee-----	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones slope	Moderate: frost action large stones	Moderate: large stones small stones droughty
McIvey-----	Moderate: large stones too clayey	Moderate: large stones shrink-swell	Moderate: large stones shrink-swell	Moderate: large stones shrink-swell slope	Moderate: frost action low strength shrink-swell	Severe: large stones small stones
Rubicity-----	Slight	Slight	Slight	Moderate: slope	Moderate: frost action	Moderate: small stones droughty
1710: James Canyon---	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Moderate: flooding wetness
Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
1711: James Canyon---	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Moderate: flooding wetness

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Wendane-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Severe: excess sodium excess salt
Wendane-----	Moderate: flooding wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: flooding frost action	Severe: excess sodium excess salt
1720: Welch-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action wetness	Severe: wetness
1721: Welch-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action wetness	Severe: wetness
Welsum-----	Severe: wetness cutbanks cave	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action wetness	Severe: flooding wetness
1722: Welch-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Slight
Slipback-----	Severe: cutbanks cave	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: frost action shrink-swell	Severe: excess sodium
Welch-----	Severe: wetness cutbanks cave	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action	Moderate: flooding wetness
1723: Welch-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action wetness	Severe: wetness
Welch-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action low strength	Slight
1730: McIvey-----	Moderate: large stones slope too clayey	Moderate: large stones shrink-swell slope	Moderate: large stones shrink-swell slope	Severe: slope	Moderate: low strength shrink-swell slope	Severe: large stones small stones
Donna-----	Severe: cemented pan	Severe: shrink-swell	Severe: cemented pan shrink-swell	Severe: shrink-swell slope	Severe: low strength shrink-swell	Moderate: cemented pan slope small stones
1731: McIvey-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: large stones slope small stones
Chen-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Donna-----	Severe: cemented pan	Severe: shrink-swell	Severe: cemented pan shrink-swell	Severe: shrink-swell slope	Severe: low strength shrink-swell	Moderate: cemented pan slope
1732: McIvey-----	Moderate: large stones too clayey	Moderate: large stones shrink-swell	Moderate: large stones shrink-swell	Moderate: large stones shrink-swell slope	Moderate: frost action large stones shrink-swell	Moderate: large stones small stones droughty
Stampede-----	Severe: cemented pan	Severe: shrink-swell	Severe: cemented pan shrink-swell	Severe: shrink-swell	Severe: low strength shrink-swell	Moderate: cemented pan small stones
Heechee-----	Moderate: large stones slope	Moderate: large stones slope	Moderate: large stones slope	Severe: slope	Moderate: frost action large stones slope	Moderate: large stones small stones droughty
1740: Slipback-----	Severe: cutbanks cave	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: frost action shrink-swell	Severe: excess sodium
Welch-----	Severe: cutbanks cave	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action	Slight
1741: Slipback-----	Severe: cutbanks cave	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: frost action shrink-swell	Severe: excess sodium
Shantown-----	Severe: cutbanks cave	Slight	Slight	Slight	Slight	Moderate: small stones droughty
Toba-----	Severe: wetness cutbanks cave	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Severe: flooding
1750: Heechee-----	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: large stones	Moderate: frost action large stones	Moderate: small stones droughty
Welch-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action wetness	Severe: wetness
Welch-----	Moderate: wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: frost action low strength	Slight
1760: Lykal-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: frost action	Moderate: wetness
Wendane-----	Moderate: flooding wetness	Severe: flooding	Severe: flooding	Severe: flooding	Severe: flooding frost action	Severe: excess sodium excess salt
James Canyon---	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action	Moderate: flooding wetness

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
1770: Donna-----	Severe: cemented pan	Severe: shrink-swell	Severe: cemented pan shrink-swell	Severe: shrink-swell slope	Severe: low strength shrink-swell	Moderate: cemented pan slope small stones
McIvey-----	Moderate: large stones slope too clayey	Moderate: large stones shrink-swell slope	Moderate: large stones shrink-swell slope	Severe: slope	Moderate: low strength shrink-swell slope	Severe: large stones small stones
Heechee-----	Moderate: large stones slope	Moderate: large stones slope	Moderate: large stones slope	Severe: slope	Moderate: frost action large stones slope	Severe: small stones
1780: Schoer-----	Severe: cutbanks cave	Moderate: shrink-swell	Slight	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: droughty
Welch-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action wetness	Severe: wetness
1790: Donna-----	Severe: cemented pan	Severe: shrink-swell	Severe: cemented pan shrink-swell	Severe: shrink-swell slope	Severe: low strength shrink-swell	Moderate: cemented pan slope small stones
Krenka-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
McIvey-----	Moderate: large stones slope too clayey	Moderate: large stones shrink-swell slope	Moderate: large stones shrink-swell slope	Severe: slope	Moderate: low strength shrink-swell slope	Severe: large stones small stones
1800: Chen-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Graley-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock
Rock Outcrop---	---	---	---	---	---	---
1810: Sumine-----	Severe: slope depth to rock	Severe: slope	Severe: slope depth to rock	Severe: slope	Severe: slope	Severe: slope small stones
Tusel-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
Hapgood-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones
1820: Hussa-----	Severe: wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding low strength wetness	Severe: flooding wetness

TABLE 8.--BUILDING SITE DEVELOPMENT--Continued

Map symbol and soil name	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets	Lawns and landscaping
Halleck-----	Severe: wetness	Severe: flooding	Severe: flooding wetness	Severe: flooding	Severe: flooding frost action low strength	Severe: flooding
Welsum-----	Severe: wetness cutbanks cave	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding frost action wetness	Severe: flooding wetness
1831: Enko-----	Slight	Slight	Slight	Moderate: slope	Moderate: frost action	Slight
Kelk-----	Slight	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: shrink-swell	Moderate: frost action low strength shrink-swell	Slight
Enko-----	Slight	Slight	Slight	Slight	Moderate: frost action	Slight
1840: Amene-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Belsac-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones
Chen-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
1850: Bullump-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope small stones
Cleavage-----	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope depth to rock	Severe: slope small stones depth to rock
Rock Outcrop---	---	---	---	---	---	---
1861: Equis-----	Severe: wetness	Severe: flooding shrink-swell wetness	Severe: flooding shrink-swell wetness	Severe: flooding shrink-swell wetness	Severe: low strength shrink-swell	Severe: excess sodium excess salt too clayey
Devilsgait-----	Severe: wetness cutbanks cave	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding wetness	Severe: flooding low strength wetness	Severe: flooding wetness
1862: Equis-----	Severe: wetness	Severe: flooding shrink-swell wetness	Severe: flooding shrink-swell wetness	Severe: flooding shrink-swell wetness	Severe: low strength shrink-swell	Severe: excess sodium excess salt too clayey

TABLE 9.--CONSTRUCTION MATERIALS

(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0053: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Urmafot-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
0062: Antoft-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop---	---	---	---	---
Antoft-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0066: Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0067: Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0069: Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Hyzen-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop---	---	---	---	---

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0070: Stewval-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Eastwell-----	Fair: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0071: Stewval-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Wesfil-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop----	---	---	---	---
0080: Stewval-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0092: Wesfil-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0098: Wesfil-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tarnach-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Wesfil-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
0099: Wesfil-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Heist-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: area reclaim small stones
0100: Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
0101: Toano-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: thin layer
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
0103: Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Playas-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
0111: Gravier-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones
113: Gravier-----	Good	Probable excess fines	Probable excess fines	Poor: area reclaim small stones
Gravier-----	Good	Probable excess fines	Probable excess fines	Poor: area reclaim small stones
Jericho-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
0116: Gravier-----	Good	Probable	Probable	Poor: area reclaim small stones
Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0118: Gravier-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0119: Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
0120: Izamatc-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones
Cliffdown-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim excess salt small stones
0122: Gravier-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
Izamatc-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0130: Tooele-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: excess salt small stones
Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
0140: Gollaher-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Belsac-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0151: Hopeka-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Amene-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop----	---	---	---	---
0154: Hopeka-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
0160: Saltair-----	Poor: low strength wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt wetness
Kawich-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: too sandy
0161: Saltair-----	Poor: low strength wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt wetness
Playas-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
0171: Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy
Gravier-----	Good	Probable	Probable	Poor: area reclaim small stones
Toano-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: thin layer
0173: Cliffdown-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim excess salt small stones
Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0174: Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0175: Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
0176: Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0181: Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Dewar-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan slope small stones
0182: Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan slope small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Gance-----	Fair: large stones	Improbable: small stones	Probable	Poor: area reclaim small stones
0183: Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Enko-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Izar-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0185: Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Chiara-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan
0186: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Pharo-----	Fair: slope	Improbable: small stones	Probable	Poor: area reclaim slope small stones
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0187: Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Izar-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Izar-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0188: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Automal-----	Poor: slope	Improbable: small stones	Probable	Poor: area reclaim slope small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Izar-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0192: Hutchley-----	Poor: depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Simon-----	Poor: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
0201: Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Hopeka-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop----	---	---	---	---
0203: Tecomar-----	Poor: large stones depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Pharo-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
0210: Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
Hardhat-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too sandy
Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy
0211: Valmy-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: area reclaim excess salt small stones
Enko-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0230: Zafod-----	Fair: large stones slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim slope small stones
Pyrat-----	Fair: slope	Probable	Probable	Poor: area reclaim slope small stones
Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0231: Dacker-----	Poor: cemented pan low strength	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Nevador-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Kelk-----	Fair: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0240: Hundraw-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Cobre-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Fair: small stones thin layer depth to rock
0241: Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Kzin-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0242: Cobre-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Fair: small stones thin layer depth to rock
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Chiara-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0244: Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0250: Izar-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Holborn-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Kzin-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0251: Izar-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0252: Izar-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0260: Dewar-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Chiara-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Hunnton-----	Poor: cemented pan low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey
0270: Chiara-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan
Kelk-----	Fair: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Kelk-----	Fair: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0273: Chiara-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan
Dewar-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Enko-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0276: Chiara-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan
Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Urmafot-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
0279: Chiara-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan
Parisa-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim small stones
Enko-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: excess salt small stones thin layer
0280: Oupico-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Enko-----	Good	Probable	Probable	Fair: area reclaim small stones
0282: Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0310: Sonoma-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: too clayey
Devilsgait-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: wetness
Sonoma-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: excess salt too clayey
0311: Sonoma-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: too clayey
Kelk-----	Fair: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0330: Kzin-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Holborn-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Kzin-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0331: Kzin-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Cobre-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Fair: small stones thin layer depth to rock
Jackpot-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: depth to rock
0333: Kzin-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Holborn-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Onkeyo-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
0340: Shuttle-----	Fair: cemented pan thin layer	Improbable: excess fines	Improbable: excess fines	Poor: excess salt small stones
Hardhat-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too sandy
Shuttle-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim excess salt small stones
0350: Jericho-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Jericho-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0351: Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0355: Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0370: Toano-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: thin layer
Tulase-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0371: Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0373: Timpie-----	Fair: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Pilt-down-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: excess salt small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
0374: Heist-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0375: Toano-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: thin layer
Heist-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: area reclaim small stones
0380: Cobre-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Fair: small stones thin layer depth to rock
Izar-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Jackpot-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: depth to rock
0381: Cobre-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Fair: small stones thin layer depth to rock
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Jackpot-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0382: Cobre-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Fair: small stones thin layer depth to rock
Enko-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0390: Hardol-----	Poor: slope	Improbable: small stones	Probable	Poor: area reclaim slope small stones
Muiral-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Rubble Land-----	Poor: large stones slope	Improbable: large stones small stones	Improbable: large stones	Poor: area reclaim slope small stones
0392: Hardol-----	Poor: slope	Improbable: small stones	Probable	Poor: area reclaim slope small stones
Muiral-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Onkeyo-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
0400: Cleavage-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Cleavage-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Sumine-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
410: Jericho-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
411: Jericho-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0420: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0421: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
0422: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Zimbob-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0424: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0426: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0429: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0430: Graley-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Pioche-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Cropper-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0431: Graley-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Chen-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
McIvey-----	Poor: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
0440: Lomcaine-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Bijorja-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Lomcaine-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0460: Okan-----	Good	Probable	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
0470: Rozara-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Cucamungo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop---	---	---	---	---
0471: Cucamungo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Hendap-----	Poor: slope depth to rock	Improbable: thin layer	Improbable: thin layer	Poor: slope small stones depth to rock
Rock Outcrop---	---	---	---	---
0480: Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0485: Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Parisa-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim small stones
Hunnton-----	Poor: cemented pan low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey
0490: Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0492: Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Peeko-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0494: Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
0496: Sodhouse-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Sodhouse-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: small stones
0497: Sodhouse-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Sodhouse-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0501: Pharo-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Izar-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0503: Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
0504: Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
0510: Adobe-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Hardzem-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Haunchee-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0511: Adobe-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones
Hardol-----	Poor: slope	Improbable: small stones	Probable	Poor: area reclaim slope small stones
0512: Adobe-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Cavehill-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0520: Haunchee-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Muiral-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones
0530: Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones
Adobe-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Haunchee-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0532: Onkeyo-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
0540: Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Sycomat-----	Good	Probable	Probable	Poor: area reclaim small stones
0541: Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
0550: Urmafot-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Bobs-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Urmafot-----	Poor: cemented pan slope	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
0551: Urmafot-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
Bobs-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
552: Urmafot-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
Pharo-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
0554: Urmafot-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
Tecomar-----	Poor: large stones depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Urmafot-----	Poor: cemented pan slope	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
0561: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Urmafot-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
Palinor-----	Poor: cemented pan slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0562: Bobs-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0563: Bobs-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
0575: Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Cavehill-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Rock Outcrop---	---	---	---	---
0576: Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Onkeyo-----	Poor: depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
0582: Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
0590: Upatad-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Segura-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0600: Onkeyo-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Amene-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0610: Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0614: Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0617: Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy
0620: Atlow-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Atlow-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
0631: Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0632: Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Zafod-----	Fair: large stones	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
0634: Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Izar-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
0636: Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0650: Mizpah-----	Poor: low strength shrink-swell depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: too clayey
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
0671: Idway-----	Good	Probable	Probable	Poor: area reclaim small stones
Mysol-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0672: Idway-----	Good	Probable	Probable	Poor: area reclaim small stones
James Canyon----	Fair: shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: small stones
0680: Simon-----	Fair: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
Graley-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Chen-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
0691: Tarnach-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tarnach-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Wesfil-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0692: Tarnach-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Upatad-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Wesfil-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0700: Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Tulase-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0720: Mysol-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Mysol-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0730: Idway-----	Good	Probable	Probable	Poor: area reclaim small stones
Kawich-----	Fair: slope	Improbable: excess fines	Improbable: excess fines	Poor: slope too sandy
Mysol-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0733: Idway-----	Good	Probable	Probable	Poor: area reclaim small stones
Idway-----	Good	Probable	Probable	Poor: area reclaim small stones
Mysol-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0740: Upatad-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Pioche-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Tarnach-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0760: Playas-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
0761: Umberland-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
Umberland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
0762: Umberland-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Playas-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
0763: Equis-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Umberland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Duffer-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0764: Umberland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Rubylake-----	Fair: low strength shrink-swell thin layer	Improbable: excess fines	Improbable: excess fines	Fair: excess salt
Orupa-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: too clayey
0765: Umberland-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
Umberland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
0767: Umberland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Umberland-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
Orupa-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: too clayey
0781: Mysol-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
0800: Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
Toano-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: thin layer
0801: Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0804: Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
Kawich-----	Fair: slope	Improbable: excess fines	Improbable: excess fines	Poor: slope too sandy
Playas-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
0807: Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0823: Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0824: Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
0827: Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
James Canyon---	Fair: shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: small stones
James Canyon---	Fair: shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: small stones
0828: Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
0830: Pharo-----	Poor: slope	Improbable: small stones	Probable	Poor: area reclaim slope small stones
Kzin-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Pharo-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
0842: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Timpie-----	Fair: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0843: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Kawich-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: too sandy
0845: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Ragtown-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Timpie-----	Fair: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0847: Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
0850: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
0851: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
0852: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0854: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
0856: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Parisa-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: small stones
0857: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Shabliss-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
0858: Palinor-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
0870: Theriot-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0880: Duffer-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Duffer-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness
0881: Duffer-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0882: Duffer-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness
0894: Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones
Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
0900: Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
0910: Ragtown-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Ragtown-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
0912: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
0914: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0917: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Ragtown-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
0918: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Zorravista-----	Good	Probable	Improbable: too sandy	Poor: too sandy
Playas-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
0930: Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Toano-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: thin layer
Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy
0932: Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Fyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
0941: Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Zorravista-----	Good	Probable	Improbable: too sandy	Poor: too sandy
0943: Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Umberland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
0960: Gravier-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0961: Gravier-----	Good	Probable	Probable	Poor: area reclaim small stones
Piltown-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: excess salt small stones
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
0972: Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0974: Zimbob-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0975: Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
0980: Onkeyo-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0990: Hyzen-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Zimbob-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
0991: Hyzen-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Cavehill-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
1000: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
1001: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
1002: Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones
Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones
1003: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Hundraw-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tulase-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: small stones
1004: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Parisa-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim small stones
Tulase-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: small stones
1005: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Zerk-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Parisa-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim small stones
1006: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
1007: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Parisa-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim small stones
1009: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Tulase-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: small stones
Wintermute-----	Fair: large stones	Probable	Probable	Poor: area reclaim small stones
1020: Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Eastwell-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim cemented pan small stones
Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
1023: Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
1030: Segura-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Bullump-----	Poor: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim slope small stones
Hutchley-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
1040: Segura-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Pioche-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Chen-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
1061: Pioche-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Cucamungo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop---	---	---	---	---
1070: Zafod-----	Fair: large stones	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
1080: Cotant-----	Poor: low strength shrink-swell depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Segura-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
1111: Parisa-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim small stones
1120: Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
1150: Adobe-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones
Haunchee-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
1161: Pharo-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Bobs-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: cemented pan small stones
Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
1171: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Gravier-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
1172: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
1173: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Automal-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones
1174: Pyrat-----	Good	Probable	Probable	Poor: area reclaim small stones
Tosser-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1180: Haunchee-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Cavehill-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
1181: Haunchee-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Halacan-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones
1190: Upatad-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Atlow-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Upatad-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
1191: Upatad-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Pioche-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Rock Outcrop---	---	---	---	---
1200: Hardol-----	Poor: slope	Improbable: small stones	Probable	Poor: area reclaim slope small stones
Hardzem-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Rock Outcrop---	---	---	---	---

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1201: Hardol-----	Poor: slope	Improbable: small stones	Probable	Poor: area reclaim slope small stones
Rock Outcrop----	---	---	---	---
Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones
1210: Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
1213: Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones
1215: Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Zorravista-----	Good	Probable	Improbable: too sandy	Poor: too sandy
1216: Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Idway-----	Good	Probable	Probable	Poor: area reclaim small stones
Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
1220: Onkeyo-----	Poor: slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Adobe-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1230: Hardzem-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Haunchee-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones
1240: Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
1241: Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
Playas-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
1250: Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
1270: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Sheffit-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
1271: Uvada-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Ragtown-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1272: Katelana-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Fair: excess salt thin layer
Kawich-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: too sandy
1280: Sycomat-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
1281: Sycomat-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Mazuma-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too sandy
1290: Heist-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: area reclaim small stones
Blimo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
1300: Cavehill-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Haunchee-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Hardzem-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
1360: Toba-----	Fair: wetness	Probable	Improbable: too sandy	Poor: too sandy
Appian-----	Good	Probable	Improbable: too sandy	Poor: excess sodium
1370: Orupa-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: too clayey
Playas-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
Boofuss-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1380: Hulderman-----	Fair: wetness	Probable	Improbable: too sandy	Fair: small stones thin layer
Toba-----	Fair: wetness	Probable	Improbable: too sandy	Poor: too sandy
Benin-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey
1390: Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
Mysol-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Toba-----	Fair: wetness	Probable	Improbable: too sandy	Poor: too sandy
1410: Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones
Tosser-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
1411: Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: small stones
Okan-----	Good	Probable	Probable	Poor: area reclaim small stones
1412: Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones
Idway-----	Good	Probable	Probable	Poor: area reclaim small stones
1413: Idway-----	Good	Probable	Probable	Poor: area reclaim small stones
Zorravista-----	Good	Probable	Improbable: too sandy	Poor: too sandy
Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
1414: Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Shantown-----	Good	Probable	Probable	Poor: area reclaim small stones
Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
1430: Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Rock Outcrop----	---	---	---	---
1440: Boofuss-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
Boofuss-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
Equis-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
1441: Boofuss-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess salt too clayey wetness
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
Umberland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
1450: Piltown-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: excess salt small stones
Kawich-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: too sandy
1460: Tosser-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1471: Timpie-----	Fair: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Kunzler-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Threesee-----	Good	Probable	Probable	Poor: area reclaim small stones
1480: Tulase-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: small stones
Linoyer-----	Good	Improbable: excess fines	Improbable: excess fines	Good
1500: Tooete-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: excess salt small stones
Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy
1510: Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Cliffdown-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim excess salt small stones
1520: Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Luning-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones too sandy
1521: Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Theriot-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1522: Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Smaug-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Badland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt slope too clayey
1530: Theriot-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Theriot-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
1531: Theriot-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Izamatch-----	Fair: slope	Probable	Probable	Poor: area reclaim small stones too sandy
Rock Outcrop---	---	---	---	---
1532: Theriot-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Theriot-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop---	---	---	---	---
1540: Kyler-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Antoft-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Amtoft-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
1541: Kyler-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Kyler-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones depth to rock
Rock Outcrop---	---	---	---	---
1542: Kyler-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Amtoft-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Jericho-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
1550: Jericho-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
Jericho-----	Poor: cemented pan slope	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
1560: Toano-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: thin layer
Timpie-----	Fair: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
1570: Jericho-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
Xeric Torriorthents--	Fair: slope	Probable	Probable	Poor: area reclaim small stones too sandy
1580: Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Jericho-----	Poor: cemented pan	Improbable: small stones	Probable	Poor: area reclaim cemented pan small stones
1581: Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones
Kyler-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Heist-----	Good	Improbable: excess fines	Improbable: excess fines	Fair: area reclaim small stones
1582: Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones
Xeric Torriorthents--	Fair: slope	Probable	Probable	Poor: area reclaim small stones too sandy
1590: Luning-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones too sandy
Luning-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones too sandy
Loray-----	Good	Improbable: small stones	Probable	Poor: area reclaim small stones too sandy
1591: Luning-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones too sandy
Izamatch-----	Good	Probable	Probable	Poor: area reclaim small stones too sandy
Badland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt slope too clayey
1600: Eaglepass-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Amtoft-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
1610: Xeric Torriorthents--	Fair: slope	Probable	Probable	Poor: area reclaim small stones too sandy
Armespan-----	Good	Probable	Probable	Poor: area reclaim excess salt small stones
Badland-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope depth to rock
1620: Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness
Duffer-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Sonoma-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: too clayey
1621: Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness
Rubylake-----	Fair: low strength shrink-swell thin layer	Improbable: excess fines	Improbable: excess fines	Fair: excess salt
Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness
1622: Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness
1623: Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness
Water-----	---	---	---	---
1630: Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Cavehill-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Rock Outcrop----	---	---	---	---
1631: Pookaloo-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Tecomar-----	Poor: large stones slope depth to rock	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: slope small stones depth to rock
Wardbay-----	Poor: slope	Improbable: large stones excess fines	Improbable: large stones excess fines	Poor: area reclaim slope small stones
1640: Jungo-----	Poor: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim slope small stones
Jungo-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
1650: Shantown-----	Good	Probable	Probable	Poor: area reclaim small stones
Zorravista-----	Good	Probable	Improbable: too sandy	Poor: too sandy
1651: Shantown-----	Good	Probable	Probable	Poor: area reclaim small stones
Shantown-----	Good	Probable	Probable	Poor: area reclaim small stones
1660: Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
Logan-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: too clayey
1670: Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
Logan-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: too clayey
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1680: Rubylake-----	Fair: low strength shrink-swell thin layer	Improbable: excess fines	Improbable: excess fines	Fair: excess salt
Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
1681: Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
Logan-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: too clayey
Umberland-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
1690: Krenka-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones
Secrepass-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
1700: Heechee-----	Fair: large stones	Improbable: large stones	Improbable: large stones	Poor: area reclaim small stones
Rubicity-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Heechee-----	Fair: large stones	Improbable: large stones	Improbable: large stones	Poor: area reclaim small stones
1702: Heechee-----	Fair: large stones	Improbable: large stones	Improbable: large stones	Poor: area reclaim small stones
McIvey-----	Fair: large stones low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
Rubicity-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: small stones
1710: James Canyon----	Fair: wetness	Improbable: excess fines	Improbable: excess fines	Poor: small stones

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
1711: James Canyon----	Fair: wetness	Improbable: excess fines	Improbable: excess fines	Poor: small stones
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
1720: Welch-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: wetness
1721: Welch-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: wetness
Welsum-----	Poor: wetness	Probable	Probable	Poor: area reclaim small stones too sandy
1722: Welch-----	Good	Probable	Probable	Poor: area reclaim
Slipback-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium small stones
Welch-----	Fair: wetness	Probable	Probable	Poor: area reclaim
1723: Welch-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: wetness
Welch-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: small stones too clayey
1730: McIvey-----	Fair: large stones low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
Donna-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
1731: McIvey-----	Poor: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
Chen-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Donna-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim too clayey
1732: McIvey-----	Fair: large stones shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
Stampede-----	Poor: cemented pan low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey
Heechee-----	Fair: large stones	Improbable: large stones	Improbable: large stones	Poor: area reclaim small stones
1740: Slipback-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium small stones
Welch-----	Good	Probable	Probable	Poor: area reclaim
1741: Slipback-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium small stones
Shantown-----	Good	Probable	Probable	Poor: area reclaim small stones
Toba-----	Fair: wetness	Probable	Improbable: too sandy	Poor: too sandy
1750: Heechee-----	Fair: large stones	Improbable: large stones	Improbable: large stones	Poor: area reclaim small stones
Welch-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: wetness
Welch-----	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Fair: small stones too clayey
1760: Lykal-----	Fair: wetness	Improbable: excess fines	Improbable: excess fines	Fair: area reclaim
Wendane-----	Fair: thin layer wetness	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt
James Canyon---	Fair: wetness	Improbable: excess fines	Improbable: excess fines	Poor: small stones
1770: Donna-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
McIvey-----	Fair: large stones low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
Heechee-----	Fair: large stones	Improbable: large stones	Improbable: large stones	Poor: area reclaim small stones
1780: Schoer-----	Good	Probable	Probable	Poor: area reclaim small stones too clayey
Welch-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: wetness
1790: Donna-----	Poor: cemented pan	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
Krenka-----	Fair: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim slope small stones
McIvey-----	Fair: large stones low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim small stones too clayey
1800: Chen-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Graley-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
Rock Outcrop---	---	---	---	---
1810: Sumine-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Tusel-----	Poor: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim slope small stones
Hapgood-----	Poor: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim slope small stones
1820: Hussa-----	Poor: low strength wetness	Improbable: excess fines	Improbable: excess fines	Poor: wetness
Halleck-----	Fair: wetness	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
Welsum-----	Poor: wetness	Probable	Probable	Poor: area reclaim small stones too sandy
1831: Enko-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Kelk-----	Fair: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
Enko-----	Good	Improbable: excess fines	Improbable: excess fines	Poor: excess salt
1840: Amene-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Belsac-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones
Chen-----	Poor: depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: small stones too clayey depth to rock
1850: Bullump-----	Poor: slope	Improbable: excess fines	Improbable: excess fines	Poor: area reclaim slope small stones
Cleavage-----	Poor: slope depth to rock	Improbable: excess fines	Improbable: excess fines	Poor: slope small stones depth to rock
Rock Outcrop----	---	---	---	---
1861: Equis-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Devilsgait-----	Poor: wetness	Improbable: excess fines	Improbable: excess fines	Poor: wetness
1862: Equis-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Equis-----	Poor: low strength shrink-swell	Improbable: excess fines	Improbable: excess fines	Poor: excess sodium excess salt too clayey
Kolda-----	Poor: low strength shrink-swell wetness	Improbable: excess fines	Improbable: excess fines	Poor: too clayey wetness

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Map symbol and soil name	Roadfill	Sand	Gravel	Topsoil
1870: Denied Access---	---	---	---	---
1880: Water-----	---	---	---	---

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Eastwell-----	0-5	gravelly sandy loam	SM	A-1, A-2, A-4	0	0-5	65-80	60-75	40-60	20-40	20-25	NP-5
	5-18	very gravelly loam, very gravelly sandy loam	GC-GM, GC, GM	A-1, A-2	0	0-10	40-60	35-50	20-40	10-30	20-35	NP-15
	18-27	cemented			---	---	---	---	---	---	---	---
	27-60	very gravelly loam, very cobbly loam	GC-GM, GM	A-2, A-4	0-5	15-45	50-70	45-60	35-55	30-50	20-30	NP-10
0071: Stewval-----	0-2	very gravelly fine sandy loam	GC-GM	A-2	0	0-10	35-55	30-45	20-35	10-20	20-25	5-10
	2-6	extremely gravelly loam, very gravelly clay loam, very gravelly loam	GC	A-2	0-10	0-25	20-55	15-45	10-35	10-30	30-40	10-20
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
Wesfil-----	0-6	very channery loam	GC-GM	A-2	0	10-25	50-65	35-50	25-45	20-35	20-25	5-10
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
0080: Stewval-----	0-2	very gravelly fine sandy loam	GC-GM	A-2	0	0-10	35-55	30-45	20-35	10-20	20-25	5-10
	2-6	extremely gravelly loam, very gravelly clay loam, very gravelly loam	GC	A-2	0-10	0-25	20-55	15-45	10-35	10-30	30-40	10-20
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
0092: Wesfil-----	0-6	very channery loam	GC-GM	A-2	0	10-25	50-65	35-50	25-45	20-35	20-25	5-10
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand to loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
0098: Wesfil-----	0-6	very channery loam	GC-GM	A-2	0	10-25	50-65	35-50	25-45	20-35	20-25	5-10
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
Tarnach-----	0-3	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	3-12	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
Wesfil-----	0-6	very channery loam	GC-GM	A-2	0	10-25	50-65	35-50	25-45	20-35	20-25	5-10
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
0099: Wesfil-----	0-6	very channery loam	GC-GM	A-2	0	10-25	50-65	35-50	25-45	20-35	20-25	5-10
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
Armespan-----	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GM, GP-GM, SP-SM, SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP
Heist-----	0-4	silt loam	ML	A-4	0	0	90-100	85-100	70-90	50-70	15-25	NP-5
	4-40	fine sandy loam, sandy loam	SM	A-2, A-4	0	0	80-100	75-100	50-80	25-50	15-25	NP-5
	40-60	gravelly fine sandy loam, gravelly sandy loam	GM, SM	A-2, A-1, A-4	0	0	55-80	50-75	35-60	15-40	15-25	NP-5
0100: Benin-----	0-7	silt loam	CL-ML, ML	A-4	0	0	100	95-100	75-90	70-85	25-35	5-10
	7-60	clay, silty clay	CH, CL, MH	A-7	0	0	100	100	90-100	85-95	45-55	20-25
Mazuma-----	0-15	silt loam	ML	A-4	0	0	95-100	85-100	70-90	50-65	20-25	NP-5
	15-60	stratified gravelly coarse sand to silt loam	SM	A-4	0	0	95-100	80-100	70-90	35-50	20-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
	In											
0101: Toano-----	0-9	silt loam	ML	A-4, A-5	0	0	100	95-100	85-100	85-100	30-50	NP-5
	9-27	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
	27-60	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10
0103: Benin-----	0-7	silt loam	CL-ML, ML	A-4	0	0	100	95-100	75-90	70-85	25-35	5-10
	7-60	clay, silty clay	CH, CL, MH	A-7	0	0	100	100	90-100	85-95	45-55	20-25
Playas-----	0-6	silty clay loam	CL, CH, MH, ML	A-7	0	0	100	100	100	90-100	40-55	15-25
	6-60	silty clay loam, clay, silty clay	CL, CH, MH	A-7	0	0	100	100	100	90-100	45-75	20-40
0111: Gravier-----	0-3	very gravelly sandy loam	GM	A-1, A-2	0	0	40-65	35-50	25-40	10-30	15-25	NP-5
	3-60	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5
Armespan-----	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GM, SP-SM, GP-GM, SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
0113: Gravier-----	0-3	gravelly loam	GM, SM	A-4	0	0	65-80	55-75	45-65	35-50	15-25	NP-5
	3-44	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5
Gravier-----	0-3	very gravelly sandy loam	GM	A-1, A-2	0	0	40-65	35-50	25-40	10-30	15-25	NP-5
	3-60	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5
	44-60	stratified extremely gravelly loamy sand to gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-50	25-40	15-25	5-15	---	NP
Jericho-----	0-4	very gravelly loam	GC-GM	A-2	0	0	45-60	35-50	25-40	20-35	25-30	5-10
	4-14	very gravelly sandy loam	GM	A-1	0	0-10	40-60	30-50	20-40	10-25	20-25	NP-5
	14-28	indurated			---	---	---	---	---	---	---	---
	28-60	extremely gravelly loamy coarse sand	GP-GM	A-1	0	0	25-35	15-25	10-20	5-10	0-14	NP
0116: Gravier-----	0-3	gravelly loam	GM, SM	A-4	0	0	65-80	55-75	45-65	35-50	15-25	NP-5
	3-44	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5
	44-60	stratified extremely gravelly loamy sand to gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-50	25-40	15-25	5-15	---	NP
Izamatch-----	0-3	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	55-80	50-75	30-50	15-30	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GM, GP, SP-SM, GP-GM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Loray-----	0-12	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	60-80	55-75	45-60	20-30	20-25	NP-5
	12-60	stratified extremely gravelly coarse sand to extremely gravelly loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP
0118: Gravier-----	0-3	very gravelly sandy loam	GM	A-1, A-2	0	0	40-65	35-50	25-40	10-30	15-25	NP-5
	3-60	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5
Automal-----	0-8	gravelly silt loam	CL-ML, GC-GM, ML, GM	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GM, GC-GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
Zerk-----	0-2	gravelly sandy loam	GM, SM	A-1, A-2, A-4	0	0	55-80	50-75	40-60	20-40	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-2, A-1, A-4	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP
0119: Wintermute-----	0-3	gravelly sandy loam	GM, ML, SM	A-2, A-4	0	0-10	60-85	50-75	40-65	30-55	20-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Linoyer-----	0-9	very fine sandy loam	ML	A-4	0	0	100	100	95-100	55-70	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10
0120: Izamatch-----	0-3	very gravelly sandy loam	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-35	5-20	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GP-GM, GM, SP-SM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP
Armespan-----	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GP-GM, SM, GM, SP-SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP
Cliffdown-----	0-6	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0-5	35-55	30-50	15-35	10-20	15-25	NP-10
	6-60	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0-5	35-55	30-50	15-35	10-20	15-25	NP-10
0122: Gravier-----	0-3	gravelly loam	GM, SM	A-4	0	0	65-80	55-75	45-65	35-50	15-25	NP-5
	3-60	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Tecomar-----	0-2	extremely cobblely silt loam	GC	A-2	0-15	30-60	25-45	20-40	15-40	10-35	25-35	10-15
	2-14	extremely stony silt loam, extremely cobblely silt loam, very cobblely silt loam	GC	A-2, A-6	0-30	30-60	25-60	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
0160: Saltair-----	0-11	silt loam	CL-ML	A-4	0	0	100	100	95-100	75-90	20-30	5-10
	11-60	silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	75-95	20-40	5-20
Kawich-----	0-2	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
	2-60	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
0161: Saltair-----	0-11	silt loam	CL-ML	A-4	0	0	100	100	95-100	75-90	20-30	5-10
	11-60	silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	75-95	20-40	5-20
Playas-----	0-6	silty clay	CH, CL, MH	A-7	0	0	100	100	100	90-100	45-75	20-40
	6-60	silty clay loam, clay, silty clay	CH, MH, CL	A-7	0	0	100	100	100	90-100	45-75	20-40
0171: Loray-----	0-12	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	60-80	55-75	45-60	20-30	20-25	NP-5
	12-60	stratified extremely gravelly coarse sand to extremely gravelly loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP
Gravier-----	0-3	very gravelly sandy loam	GM	A-1, A-2	0	0	40-65	35-50	25-40	10-30	15-25	NP-5
	3-44	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5
	44-60	stratified extremely gravelly very gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-50	25-40	15-25	5-15	---	NP
Toano-----	0-9	very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	85-100	60-80	30-50	NP-5
	9-27	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
	27-60	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0173: Cliffdown-----	0-6	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0-5	35-55	30-50	15-35	10-20	15-25	NP-10
	6-60	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0-5	35-55	30-50	15-35	10-20	15-25	NP-10
Armespan-----	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GP-GM, GM, SM, SP-SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP
Izamatch-----	0-3	very gravelly sandy loam	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-35	5-20	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GP-GM, GM, SP-SM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP
0174: Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobble loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
0175: Loray-----	0-12	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	60-80	55-75	45-60	20-30	20-25	NP-5
	12-60	stratified extremely gravelly coarse sand to extremely loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP
Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15
0176: Loray-----	0-12	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	60-80	55-75	45-60	20-30	20-25	NP-5
	12-60	stratified extremely gravelly coarse sand to extremely loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP
Zerk-----	0-2	gravelly loam	SM	A-4	0	0	70-85	60-75	45-60	35-50	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-1, A-4, A-2	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP
Zerk-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	65-85	55-75	45-65	30-50	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-1, A-4, A-2	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0181: Peeko-----	0-4	gravelly loam	GC-GM, GC, GM, SC-SM	A-4, A-6	0	0-5	60-80	50-75	45-65	35-50	20-35	NP-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL-ML, CL, GC, GC-GM	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
	10-30	indurated			---	---	---	---	---	---	---	---
Dewar-----	0-3	gravelly silt loam	GC, CL, SC	A-6	0	0-5	60-90	55-80	45-80	35-70	25-35	10-15
	3-13	gravelly silty clay loam, gravelly clay loam	CL, GC	A-6, A-7	0	0-10	65-90	60-80	55-80	45-75	35-45	15-20
	13-19	gravelly silt loam	CL, GC-GM, CL-ML, GC	A-4, A-6	0	0-10	65-90	60-80	55-80	40-70	25-35	5-15
Peeko-----	19-40	indurated			---	---	---	---	---	---	---	---
	0-4	gravelly loam	GC-GM, GC, GM, SC-SM	A-4, A-6	0	0-5	60-80	50-75	45-65	35-50	20-35	NP-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL, CL-ML, GC-GM, GC	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
0182: Peeko-----	10-30	indurated			---	---	---	---	---	---	---	---
	0-4	silt loam	CL, CL-ML	A-4, A-6	0	0-10	80-95	75-90	70-90	60-80	25-35	5-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL-ML, GC, CL, GC-GM	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
Peeko-----	10-30	indurated			---	---	---	---	---	---	---	---
	0-4	silt loam	CL, CL-ML	A-4, A-6	0	0-10	80-95	75-90	70-90	60-80	25-35	5-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL-ML, GC, CL, GC-GM	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
Gance-----	10-30	indurated			---	---	---	---	---	---	---	---
	0-5	very gravelly loam	GC	A-2, A-6	0	0-25	45-70	30-50	25-45	20-40	30-35	10-15
	5-20	very gravelly clay, very gravelly sandy clay, extremely gravelly clay	GC	A-2, A-7	0-5	0-30	40-70	20-55	15-55	10-40	40-60	20-35
Gance-----	20-60	extremely gravelly sandy loam, very cobbly sandy loam, extremely gravelly loam	GC-GM, GP-GM, GM	A-1, A-4, A-2	0-5	15-55	25-60	20-55	10-50	5-40	20-30	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
0183: Peeko-----	0-4	gravelly loam	GC-GM, GC, GM, SC-SM	A-4, A-6	0	0-5	60-80	50-75	45-65	35-50	20-35	NP-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL-ML, CL, GC, GC-GM	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
	10-30	indurated			---	---	---	---	---	---	---	---
Enko-----	0-2	fine sandy loam	SC-SM	A-4	0	0	95-100	85-100	60-75	35-50	20-30	5-10
	2-14	loam, sandy loam, fine sandy loam	CL-ML, SC-SM	A-4	0	0	95-100	85-100	60-90	35-70	20-30	5-10
	14-32	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
	32-60	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
Izar-----	0-3	very gravelly loam	GC	A-2	0	0-25	30-55	25-50	20-45	15-35	25-35	10-15
	3-12	very gravelly loam, extremely gravelly loam	GC	A-2	0	0-25	20-55	15-50	15-45	10-35	25-35	10-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
0185: Peeko-----	0-4	silt loam	CL, CL-ML	A-4, A-6	0	0-10	80-95	75-90	70-90	60-80	25-35	5-15
	0-4	silt loam	CL, CL-ML	A-4, A-6	0	0-10	80-95	75-90	70-90	60-80	25-35	5-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL-ML, CL, GC, GC-GM	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL, CL-ML, GC-GM, GC	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
	10-30	indurated			---	---	---	---	---	---	---	---
	10-30	indurated			---	---	---	---	---	---	---	---
Chiara-----	0-4	silt loam	ML	A-4	0	0	95-100	90-100	85-95	70-80	25-35	NP-5
	4-11	very fine sandy loam, loam, silt loam	ML	A-4	0	0	95-100	90-100	80-95	70-80	25-35	NP-5
	11-15	indurated			---	---	---	---	---	---	---	---
0186: Palinor-----	0-8	gravelly loam	GM, SM	A-4	0	0-10	60-90	50-85	45-65	35-50	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Pharo-----	0-13	gravelly loam	GC-GM, SC-SM	A-4	0	0	55-80	50-75	40-60	35-50	25-30	5-10
	13-36	very gravelly loam, extremely gravelly sandy loam	GC-GM	A-2	0	0-5	25-40	20-35	15-30	10-20	20-30	5-10
	36-60	extremely gravelly coarse sand	GP, GP-GM	A-1	0	0-10	25-30	20-25	10-15	0-10	0-14	NP
Hundraw-----	0-5	gravelly fine sandy loam	GC-GM, GM, SM, SC-SM	A-1, A-2, A-4	0	0	60-80	55-75	40-60	20-40	20-30	NP-10
	5-10	fine sandy loam, loam	ML, CL-ML, SC-SM, SM	A-2, A-4	0	0	80-95	75-90	55-80	30-70	20-30	NP-10
	10-14	weathered bedrock			---	---	---	---	---	---	---	---
0187: Peeko-----	0-4	gravelly loam	GC-GM, GC, GM, SC-SM	A-4, A-6	0	0-5	60-80	50-75	45-65	35-50	20-35	NP-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL-ML, CL, GC, GC-GM	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
	10-30	indurated			---	---	---	---	---	---	---	---
Izar-----	0-1	very gravelly loam	GC	A-2	0	0-25	30-55	25-50	20-45	15-35	25-35	10-15
	1-10	very gravelly loam, extremely gravelly loam	GC	A-2	0	0-25	20-55	15-50	15-45	10-35	25-35	10-15
	10-14	unweathered bedrock			---	---	---	---	---	---	---	---
Izar-----	0-3	very gravelly loam	GC	A-2	0	0-25	30-55	25-50	20-45	15-35	25-35	10-15
	3-12	very gravelly loam, extremely gravelly loam	GC	A-2	0	0-25	20-55	15-50	15-45	10-35	25-35	10-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
0188: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34 34-60	indurated stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0203: Tecomar-----	0-2	extremely gravelly loam	GC	A-2	0	5-30	20-35	15-30	10-25	10-20	25-35	10-15
	2-14	extremely cobblely silt loam, very cobblely silt loam	GC	A-2, A-6	0-15	45-60	35-55	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Pockaloo-----	0-2	very gravelly loam	GM	A-2	0	0-5	50-60	35-50	30-40	25-35	20-25	NP-5
	2-14	very gravelly loam, very gravelly silt loam	GM	A-2, A-4	0	0	50-60	35-50	35-45	25-40	20-25	NP-5
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Pharo-----	0-13	gravelly loam	GC-GM, SC-SM	A-4	0	0	55-80	50-75	40-60	35-50	25-30	5-10
	13-36	very gravelly loam, extremely gravelly sandy loam	GC-GM	A-2	0	0-5	25-40	20-35	15-30	10-20	20-30	5-10
	36-60	extremely gravelly coarse sand	GP, GP-GM	A-1	0	0-10	25-30	20-25	10-15	0-10	0-14	NP
0210: Mazuma-----	0-15	silt loam	ML	A-4	0	0	95-100	85-100	70-90	50-65	20-25	NP-5
	15-60	stratified gravelly coarse sand to silt loam	SM	A-4	0	0	95-100	80-100	70-90	35-50	20-25	NP-5
Hardhat-----	0-9	silt loam	ML	A-4	0	0	80-100	75-100	70-95	55-80	15-25	NP-5
	9-19	silt loam, very fine sandy loam	ML	A-4	0	0	80-100	75-100	70-95	50-80	15-25	NP-5
	19-40	stratified gravelly sand to silt loam	SM	A-2, A-1, A-4	0	0	70-95	60-90	35-85	20-50	15-25	NP-5
	40-60	stratified very gravelly sandy loam to very fine sandy loam	GM, SM	A-2, A-1, A-4	0	0	55-85	45-75	35-65	20-45	15-25	NP-5
Loray-----	0-12	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	60-80	55-75	45-60	20-30	20-25	NP-5
	12-60	stratified extremely gravelly coarse sand to extremely gravelly loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0211: Valmy-----	In											
	0-9	silt loam	CL	A-6	0	0	95-100	90-100	70-90	60-85	25-35	10-15
	9-40	fine sandy loam, loam	CL-ML, SC-SM	A-4	0	0	90-100	85-100	50-85	35-60	15-25	5-10
	40-61	stratified very fine sandy loam to gravelly silt loam	SC-SM	A-4	0	0	75-100	60-90	45-75	35-50	15-25	5-10
Enko-----	0-2	fine sandy loam	SC-SM	A-4	0	0	95-100	85-100	60-75	35-50	20-30	5-10
	2-14	loam, sandy loam, fine sandy loam	CL-ML, SC-SM	A-4	0	0	95-100	85-100	60-90	35-70	20-30	5-10
	14-32	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
	32-60	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
0230: Zafod-----	0-7	extremely stony loam	GC-GM	A-2	25-40	15-25	25-50	20-40	15-35	10-25	25-30	5-10
	7-28	very cobbly coarse sandy loam	SM	A-1	5-10	25-45	60-80	50-70	25-40	15-25	15-25	NP-5
	28-38	cemented			---	---	---	---	---	---	---	---
	38-60	very gravelly coarse sand	GM, SM	A-1	0-10	0-10	50-65	30-45	15-30	10-20	---	NP
Pyrat-----	0-6	very stony sandy loam	GM	A-1, A-2	5-25	0-10	40-55	35-50	25-45	15-30	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GP, GM, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Kzin-----	0-3	very gravelly loam	GC	A-2, A-6	0	0-15	40-50	35-50	30-45	25-40	25-35	10-15
	3-9	very gravelly sandy loam, very gravelly loam	GC, GC-GM	A-2, A-6, A-4	0	0-15	40-50	35-50	25-45	15-40	25-35	5-15
	9-13	weathered bedrock			---	---	---	---	---	---	---	---
0242: Cobre-----	0-7	silt loam	ML	A-4	0	0	85-100	75-100	70-95	55-85	30-40	5-10
	7-15	silt loam, loam, very fine sandy loam	ML, SM	A-4	0	0	85-100	75-100	65-95	45-85	30-40	5-10
	15-34	loam, fine sandy loam, sandy loam	ML, SM	A-4	0	0	85-100	75-100	45-90	35-70	25-30	NP-5
	34-38	weathered bedrock			---	---	---	---	---	---	---	---
Hundraw-----	0-5	gravelly fine sandy loam	GM, GC-GM, SC-SM, SM	A-1, A-4, A-2	0	0	60-80	55-75	40-60	20-40	20-30	NP-10
	5-10	fine sandy loam, loam	CL-ML, SM, ML, SC-SM	A-2, A-4	0	0	80-95	75-90	55-80	30-70	20-30	NP-10
	10-14	weathered bedrock			---	---	---	---	---	---	---	---
Chiara-----	0-4	silt loam	ML	A-4	0	0	95-100	90-100	85-95	70-80	25-35	NP-5
	4-11	very fine sandy loam, loam, silt loam	ML	A-4	0	0	95-100	90-100	80-95	70-80	25-35	NP-5
	11-15	indurated			---	---	---	---	---	---	---	---
0244: Hundraw-----	0-5	gravelly fine sandy loam	GC-GM, GM, SM, SC-SM	A-1, A-4, A-2	0	0	60-80	55-75	40-60	20-40	20-30	NP-10
	5-10	fine sandy loam, loam	CL-ML, SM, ML, SC-SM	A-2, A-4	0	0	80-95	75-90	55-80	30-70	20-30	NP-10
	10-14	weathered bedrock			---	---	---	---	---	---	---	---
Shabliss-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	68-85	55-75	50-65	25-45	20-25	NP-5
	2-15	loam, very fine sandy loam	ML	A-4	0	0	95-100	90-100	85-95	50-65	15-20	NP-5
	15-31	cemented			---	---	---	---	---	---	---	---
	31-60	very gravelly loamy sand	GM	A-1	0	0-15	35-55	30-50	15-30	10-20	---	NP
Palinor-----	0-8	gravelly loam	GM, SM	A-4	0	0-10	60-90	50-85	45-65	35-50	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
					Pct	Pct						
Dewar-----	0-3	gravelly silt loam	GC, CL, SC	A-6	0	0-5	60-90	55-80	45-80	35-70	25-35	10-15
	3-13	gravelly silty clay loam, gravelly clay loam	CL, GC	A-6, A-7	0	0-10	65-90	60-80	55-80	45-75	35-45	15-20
	13-19	gravelly silt loam	CL, GC-GM, CL-ML, GC	A-4, A-6	0	0-10	65-90	60-80	55-80	40-70	25-35	5-15
	19-40	indurated			---	---	---	---	---	---	---	---
Enko-----	0-2	fine sandy loam	SC-SM	A-4	0	0	95-100	85-100	60-75	35-50	20-30	5-10
	2-14	loam, sandy loam, fine sandy loam	CL-ML, SC-SM	A-4	0	0	95-100	85-100	60-90	35-70	20-30	5-10
	14-32	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
	32-60	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
0276: Chiara-----	0-4	silt loam	ML	A-4	0	0	95-100	90-100	85-95	70-80	25-35	NP-5
	4-11	very fine sandy loam, loam, silt loam	ML	A-4	0	0	95-100	90-100	80-95	70-80	25-35	NP-5
	11-15	indurated			---	---	---	---	---	---	---	---
Peeko-----	0-4	gravelly loam	GC, GC-GM, SC-SM, GM	A-4, A-6	0	0-5	60-80	50-75	45-65	35-50	20-35	NP-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL, GC-GM, CL-ML, GC	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
	10-30	indurated			---	---	---	---	---	---	---	---
Urmafot-----	0-7	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	7-16	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	16-29	indurated			---	---	---	---	---	---	---	---
	29-60	stratified extremely gravelly coarse sandy loam to extremely gravelly sandy loam	GM, GP-GM, GP	A-1	0-10	10-40	15-40	5-30	0-25	0-20	15-25	NP-5
0279: Chiara-----	0-4	silt loam	ML	A-4	0	0	95-100	90-100	85-95	70-80	25-35	NP-5
	4-11	very fine sandy loam, loam, silt loam	ML	A-4	0	0	95-100	90-100	80-95	70-80	25-35	NP-5
	11-15	indurated			---	---	---	---	---	---	---	---
Parisa-----	0-5	gravelly loam	GM, SM	A-2, A-4	0	0-10	60-85	50-75	40-65	30-50	20-30	NP-5
	5-36	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0-10	35-60	25-50	20-40	15-35	20-30	NP-5
	36-55	indurated			---	---	---	---	---	---	---	---
	55-60	extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0	0-15	15-35	10-25	5-15	0-10	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Enko-----	0-2	loam	CL-ML	A-4	0	0	95-100	85-100	75-100	50-70	20-30	5-10
	2-14	loam, sandy loam, fine sandy loam	CL-ML, SC-SM	A-4	0	0	95-100	85-100	60-90	35-70	20-30	5-10
	14-32	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-4	0	0	95-100	85-100	75-90	40-65	20-25	5-10
	32-60	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
0280: Oupico-----	0-4	loam	ML, SM	A-4	0	0	95-100	95-100	85-90	45-75	20-25	NP-5
	4-25	gravelly loam, loam, sandy loam	ML, SM	A-2, A-4	0	0	65-95	60-90	45-80	25-65	15-25	NP-5
	25-49	indurated			---	---	---	---	---	---	---	---
	49-62	stratified sandy loam to very fine sandy loam	ML, SM	A-4	0	0	80-95	75-95	70-80	40-55	---	NP
Enko-----	0-14	loam	CL-ML, ML	A-4	0	0	90-100	85-100	75-95	50-75	15-25	NP-10
	14-53	loam, fine sandy loam, sandy loam	CL-ML, ML, SM, SC-SM	A-4	0	0	90-100	85-100	50-90	35-70	15-25	NP-10
	53-63	very gravelly loamy sand, very gravelly sand, extremely gravelly sand	GP, GP-GM	A-1	0-5	0-20	30-55	25-45	15-25	0-10	---	NP
0282: Shabliss-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	68-85	55-75	50-65	25-45	20-25	NP-5
	2-15	loam, very fine sandy loam	ML	A-4	0	0	95-100	90-100	85-95	50-65	15-20	NP-5
	15-31	cemented			---	---	---	---	---	---	---	---
	31-60	very gravelly loamy sand	GM	A-1	0	0-15	35-55	30-50	15-30	10-20	---	NP
Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Cobre-----	0-7	silt loam	ML	A-4	0	0	85-100	75-100	70-95	55-85	30-40	5-10
	7-15	silt loam, loam, very fine sandy loam	ML, SM	A-4	0	0	85-100	75-100	65-95	45-85	30-40	5-10
	15-34	loam, fine sandy loam, sandy loam	ML, SM	A-4	0	0	85-100	75-100	45-90	35-70	25-30	NP-5
	34-38	weathered bedrock			---	---	---	---	---	---	---	---
Jackpot-----	0-4	sandy loam	SM	A-2, A-5	0	0	80-100	75-100	45-70	25-40	40-60	NP-5
	4-11	sandy loam	SM	A-2, A-5	0	0	80-100	75-100	45-70	25-40	40-60	NP-5
	11-15	weathered bedrock			---	---	---	---	---	---	---	---
0333: Kzin-----	0-3	very gravelly loam	GC	A-2, A-6	0	0-15	40-50	35-50	30-45	25-40	25-35	10-15
	3-8	very gravelly sandy loam, very gravelly loam	GC, GC-GM	A-2, A-6, A-4	0	0-15	40-50	35-50	25-45	15-40	25-35	5-15
	8-12	weathered bedrock			---	---	---	---	---	---	---	---
Holborn-----	0-3	gravelly loam	CL, GC	A-6	0	0-10	55-80	50-75	45-65	35-55	25-35	10-15
	3-7	gravelly clay loam, gravelly loam	CL, GC	A-6	0	0-10	60-80	50-75	45-70	35-60	25-35	10-15
	7-17	weathered bedrock			---	---	---	---	---	---	---	---
Onkeyo-----	0-8	very gravelly silt loam	GC	A-2, A-6	0	0-15	40-65	30-55	25-50	20-45	25-35	10-15
	8-17	extremely cobble silty clay loam, very cobble silty clay loam	GM, SM	A-2, A-7, A-6	0-10	35-60	55-75	20-50	20-50	15-45	35-45	10-15
	17-21	unweathered bedrock			---	---	---	---	---	---	---	---
0340: Shuttle-----	0-6	silt loam	ML	A-4	0	0	80-100	75-95	65-80	55-75	15-25	NP-5
	6-19	silt loam, very fine sandy loam, gravelly silt loam	ML	A-4	0	0	80-100	70-90	60-80	50-75	15-25	NP-5
	19-45	very fine sandy loam, silt loam, gravelly silt loam	ML	A-4	0	0	80-100	70-90	60-80	50-75	15-25	NP-5
	45-60	indurated			---	---	---	---	---	---	---	---
Hardhat-----	0-9	silt loam	ML	A-4	0	0	80-100	75-100	70-95	55-80	15-25	NP-5
	9-19	silt loam, very fine sandy loam	ML	A-4	0	0	80-100	75-100	70-95	50-80	15-25	NP-5
	19-40	stratified gravelly sand to silt loam	SM	A-1, A-4, A-2	0	0	70-95	60-90	35-85	20-50	15-25	NP-5
	40-60	stratified very gravelly sandy loam to very fine sandy loam	GM, SM	A-1, A-4, A-2	0	0	55-85	45-75	35-65	20-45	15-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
0355: Shabliss-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	68-85	55-75	50-65	25-45	20-25	NP-5
	2-15	loam, very fine sandy loam	ML	A-4	0	0	95-100	90-100	85-95	50-65	15-20	NP-5
	15-31	cemented			---	---	---	---	---	---	---	---
	31-60	very gravelly loamy sand	GM	A-1	0	0-15	35-55	30-50	15-30	10-20	---	NP
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
0370: Toano-----	0-9	silt loam	ML	A-4, A-5	0	0	100	95-100	85-100	85-100	30-50	NP-5
	9-27	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
	27-60	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
Tulase-----	0-2	very fine sandy loam	CL-ML, ML	A-4	0	0	100	100	95-100	60-70	15-25	NP-10
	2-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	95-100	90-100	85-100	70-85	15-25	NP-10
0371: Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
0373: Timpie-----	0-8	silt loam	CL-ML	A-4	0	0	100	100	95-100	65-95	25-30	5-10
	8-19	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
	19-60	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
Piltown-----	0-10	fine sandy loam	SM	A-4	0	0	95-100	95-100	70-80	35-50	20-25	NP-5
	10-60	fine sandy loam, sandy loam, very fine sandy loam	SM	A-2, A-4	0	0	75-100	75-100	50-90	30-50	20-25	NP-5
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
410: Jericho-----	0-4	very gravelly loam	GC-GM	A-2	0	0	45-60	35-50	25-40	20-35	25-30	5-10
	4-14	very gravelly sandy loam	GM	A-1	0	0-10	40-60	30-50	20-40	10-25	20-25	NP-5
	14-28	indurated			---	---	---	---	---	---	---	---
	28-60	extremely gravelly loamy coarse sand	GP-GM	A-1	0	0	25-35	15-25	10-20	5-10	0-14	NP
411: Jericho-----	0-4	very gravelly loam	GC-GM	A-2	0	0	45-60	35-50	25-40	20-35	25-30	5-10
	4-14	very gravelly sandy loam	GM	A-1	0	0-10	40-60	30-50	20-40	10-25	20-25	NP-5
	14-28	indurated			---	---	---	---	---	---	---	---
	28-60	extremely gravelly loamy coarse sand	GP-GM	A-1	0	0	25-35	15-25	10-20	5-10	0-14	NP
Armespan-----	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GP-GM, GM, SM, SP-SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP
0420: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP
Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0421: Palinor-----	In											
	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34 34-60	indurated stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	---	---	---	---	---	---	---	---
Automal-----	0-8	gravelly silt loam	CL-ML, GC-GM, ML, GM	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GC-GM, GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
0422: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34 34-60	indurated stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	---	---	---	---	---	---	---	---
Zimbob-----	0-2	very gravelly loam	GM	A-1, A-2	0	0-10	50-65	30-50	25-40	20-35	20-25	NP-5
	2-11	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0-15	40-60	30-50	25-40	20-35	20-25	NP-5
	11-15	unweathered bedrock			---	---	---	---	---	---	---	---
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
0424: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated stratified			---	---	---	---	---	---	---	---
	34-60	extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP
Hundraw-----	0-5	gravelly fine sandy loam	GC-GM, GM, SM, SC-SM	A-1, A-4, A-2	0	0	60-80	55-75	40-60	20-40	20-30	NP-10
	5-10	fine sandy loam, loam	CL-ML, ML, SM, SC-SM	A-2, A-4	0	0	80-95	75-90	55-80	30-70	20-30	NP-10
	10-14	weathered bedrock			---	---	---	---	---	---	---	---
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
0426: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated stratified			---	---	---	---	---	---	---	---
	34-60	extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP
Automal-----	0-8	gravelly silt loam	CL-ML, GC-GM, ML, GM	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GC-GM, GP-GM, GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobble loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15
0429: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP
Automal-----	0-8	gravelly silt loam	CL-ML, ML, GC-GM, GM	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GC-GM, GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
Palinor-----	0-3	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	3-14	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	14-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0430: Graley-----	0-7	very cobbly loam	GM, SC-SM, GC-GM, SM	A-4	0	30-55	65-80	65-70	55-65	35-50	20-30	NP-10
	7-19	very gravelly clay loam, very gravelly clay	GC	A-2, A-7	0-25	0-25	40-55	35-50	30-50	25-40	45-55	20-30
	19-23	unweathered bedrock			---	---	---	---	---	---	---	---
Pioche-----	0-2	very gravelly sandy loam	GM	A-1	0	0-10	40-55	35-50	20-35	15-25	15-25	NP-5
	2-12	very cobbly clay, very cobbly clay loam	CH, GC, CL	A-7	5-10	20-40	60-70	55-65	45-60	35-55	40-55	20-30
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
Cropper-----	0-7	very cobbly loam	GC-GM, GM	A-2, A-4	0-5	20-40	55-65	45-60	35-45	30-40	25-35	5-10
	7-14	extremely gravelly sandy clay loam, extremely gravelly clay loam	GC	A-2	0-5	10-30	30-40	20-35	15-25	10-20	35-45	15-20
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
0431: Graley-----	0-7	stony loam	ML, CL-ML, SC-SM, SM	A-4	1-5	5-15	70-95	60-90	50-85	35-65	20-30	NP-10
	7-19	very gravelly clay loam, very gravelly clay	GC	A-2, A-7	0-25	0-25	40-55	35-50	30-50	25-40	45-55	20-30
	19-23	unweathered bedrock			---	---	---	---	---	---	---	---
Chen-----	0-3	very gravelly loam	GC	A-2	0	0-15	50-65	35-50	30-45	25-35	30-35	10-15
	3-16	very gravelly clay, extremely gravelly clay, very cobbly clay	GC	A-2, A-7	0-5	0-45	35-50	25-45	25-45	20-40	50-60	25-35
	16-20	unweathered bedrock			---	---	---	---	---	---	---	---
McIvey-----	0-12	very cobbly loam	GC	A-6	0	25-50	50-70	45-65	40-60	35-50	30-40	10-15
	12-18	very gravelly clay loam, gravelly clay loam	CL, GC, SC	A-7	0	0-10	55-85	45-75	40-70	35-60	40-45	20-25
	18-60	very gravelly clay, very cobbly clay, extremely cobbly clay	GC	A-2, A-7	0-25	10-55	45-60	35-50	35-45	30-45	45-55	30-35

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0470: Rozara-----	In											
	0-2	very gravelly loamy coarse sand	GM, SM	A-1	0	0	45-65	25-45	15-30	10-20	---	NP
	2-11	very gravelly loam, very gravelly sandy loam	GC-GM	A-2	0	0	45-60	25-40	20-30	15-30	25-30	5-10
	11-15	unweathered bedrock			---	---	---	---	---	---	---	---
Cucamungo-----	0-3	very gravelly sandy loam	SM	A-1	0	5-15	70-85	30-50	20-35	10-20	20-25	NP-5
	3-14	very gravelly sandy clay loam, very gravelly loam, very gravelly clay loam	SC	A-2, A-6	0	5-15	70-85	30-50	25-45	20-40	30-40	10-20
	14-19	weathered bedrock			---	---	---	---	---	---	---	---
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
0471: Cucamungo-----	0-3	very gravelly sandy loam	SM	A-1	0	5-15	70-85	30-50	20-35	10-20	20-25	NP-5
	3-14	very gravelly sandy clay loam, very gravelly loam, very gravelly clay loam	SC	A-2, A-6	0	5-15	70-85	30-50	25-45	20-40	30-40	10-20
	14-19	weathered bedrock			---	---	---	---	---	---	---	---
Hendap-----	0-7	very stony coarse sandy loam	SM, SP-SM	A-1	5-15	0-25	60-90	20-50	10-30	5-25	---	NP
	7-13	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	SM, SP-SM	A-1	0-10	10-30	55-90	15-40	5-25	5-20	---	NP
	13-17	unweathered bedrock			---	---	---	---	---	---	---	---
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
0480: Shabliss-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	68-85	55-75	50-65	25-45	20-25	NP-5
	2-15	loam, very fine sandy loam	ML	A-4	0	0	95-100	90-100	85-95	50-65	15-20	NP-5
	15-31	cemented			---	---	---	---	---	---	---	---
	31-60	very gravelly loamy sand	GM	A-1	0	0-15	35-55	30-50	15-30	10-20	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Palinor-----	In											
	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34 34-60	indurated stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	---	---	---	---	---	---	---	---
0485: Shabliss-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	68-85	55-75	50-65	25-45	20-25	NP-5
	2-15	loam, very fine sandy loam	ML	A-4	0	0	95-100	90-100	85-95	50-65	15-20	NP-5
	15-31	cemented			---	---	---	---	---	---	---	---
	31-60	very gravelly loamy sand	GM	A-1	0	0-15	35-55	30-50	15-30	10-20	---	NP
Parisa-----	0-5	gravelly loam	GM, SM	A-2, A-4	0	0-10	60-85	50-75	40-65	30-50	20-30	NP-5
	5-36	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0-10	35-60	25-50	20-40	15-35	20-30	NP-5
	36-55 55-60	indurated extremely gravelly coarse sandy loam	GP, GP-GM	A-1	---	---	---	---	---	---	---	---
Hunnton-----	0-8	silt loam	ML	A-4	0	0	95-100	85-100	75-100	60-75	20-35	NP-10
	8-12	loam, clay loam, silty clay loam	CL	A-6	0	0	95-100	90-100	75-95	60-90	30-35	10-15
	12-21	clay, gravelly clay	CH	A-7	0	0-5	75-100	60-95	60-95	55-85	50-60	25-35
	21-40	indurated			---	---	---	---	---	---	---	---
0490: Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Automal-----	0-8	gravelly silt loam	CL-ML, GC-GM, ML, GM	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GM, GC-GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
0492: Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15
Peeko-----	0-4	gravelly loam	GC-GM, GC, GM, SC-SM	A-4, A-6	0	0-5	60-80	50-75	45-65	35-50	20-35	NP-15
	4-10	very gravelly silt loam, very cobbly silt loam, gravelly silt loam	CL-ML, CL, GC, GC-GM	A-4, A-6	0	0-45	50-80	45-75	40-75	35-60	25-35	5-15
	10-30	indurated			---	---	---	---	---	---	---	---
Hundraw-----	0-5	gravelly fine sandy loam	GM, GC-GM, SC-SM, SM	A-1, A-4, A-2	0	0	60-80	55-75	40-60	20-40	20-30	NP-10
	5-10	fine sandy loam, loam	ML, CL-ML, SC-SM, SM	A-2, A-4	0	0	80-95	75-90	55-80	30-70	20-30	NP-10
	10-14	weathered bedrock			---	---	---	---	---	---	---	---
0494: Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Palinor-----	0-8	gravelly loam	GM, SM	A-4	0	0-10	60-90	50-85	45-65	35-50	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34 34-60	indurated stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	---	---	---	---	---	---	---	---
0501: Pharo-----	0-13	gravelly loam	GC-GM, SC-SM	A-4	0	0	55-80	50-75	40-60	35-50	25-30	5-10
	13-36	very gravelly loam, extremely gravelly sandy loam	GC-GM	A-2	0	0-5	25-40	20-35	15-30	10-20	20-30	5-10
	36-60	extremely gravelly coarse sand	GP, GP-GM	A-1	0	0-10	25-30	20-25	10-15	0-10	0-14	NP
Izar-----	0-3	very gravelly loam	GC	A-2	0	0-25	30-55	25-50	20-45	15-35	25-35	10-15
	3-12	very gravelly loam, extremely gravelly loam	GC	A-2	0	0-25	20-55	15-50	15-45	10-35	25-35	10-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
0503: Automal-----	0-8	gravelly silt loam	CL-ML, ML, GC-GM, GM	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GC-GM, GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0532: Onkeyo-----	0-8	very gravelly silt loam	GC	A-2, A-6	0	0-15	40-65	30-55	25-50	20-45	25-35	10-15
	8-17	extremely cobble silty clay loam, very cobbly silty clay loam	GM, SM	A-2, A-6, A-7	0-10	35-60	55-75	20-50	20-50	15-45	35-45	10-15
	17-21	unweathered bedrock			---	---	---	---	---	---	---	---
Pookaloo-----	0-2	very gravelly loam	GM	A-2	0	0-5	50-60	35-50	30-40	25-35	20-25	NP-5
	2-14	very gravelly loam, very gravelly silt loam	GM	A-2, A-4	0	0	50-60	35-50	35-45	25-40	20-25	NP-5
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Tecomar-----	0-2	extremely gravelly loam	GC	A-2	0	5-30	20-35	15-30	10-25	10-20	25-35	10-15
	2-14	extremely cobble silt loam, very cobble silt loam	GC	A-2, A-6	0-15	45-60	35-55	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
0540: Kunzler-----	0-16	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	16-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
Sycomat-----	0-5	sandy loam	ML, SM	A-4	0	0	85-100	75-100	60-75	45-60	15-30	NP-5
	5-11	gravelly sandy loam, gravelly silt loam, loam	GM, SM, ML	A-2, A-4	0	0	55-100	50-100	45-75	30-60	15-30	NP-5
	11-48	gravelly coarse sandy loam, sandy loam, gravelly loam	GM, ML, SM	A-1, A-2, A-4	0	0	55-100	50-100	35-75	20-55	15-30	NP-5
	48-60	very gravelly sand, very gravelly loamy sand	GP, GP-GM	A-1	0	0-5	30-55	25-50	20-35	0-10	---	NP
0541: Kunzler-----	0-16	silt loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	16-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
Sheffit-----	0-4	silt loam	CL-ML, ML	A-4	0	0	100	95-100	80-100	65-85	25-35	5-10
	4-60	stratified silt loam to clay	CL, MH, ML	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0550: Urmafot-----	0-7	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	7-16	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	16-29	indurated			---	---	---	---	---	---	---	---
	29-60	stratified extremely gravelly coarse sandy loam to extremely gravelly sandy loam	GM, GP-GM, GP	A-1	0-10	10-40	15-40	5-30	0-25	0-20	15-25	NP-5
Bobs-----	0-8	gravelly loam	GM, SM, ML	A-4	0	0-15	70-80	65-75	55-70	40-55	20-25	NP-5
	8-13	gravelly loam, gravelly very fine sandy loam, gravelly silt loam	GM, SM	A-4	0	0-15	60-80	50-75	45-70	35-50	20-25	NP-5
	13-17	indurated			---	---	---	---	---	---	---	---
Urmafot-----	0-5	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	5-9	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	9-29	indurated			---	---	---	---	---	---	---	---
	29-60	stratified extremely gravelly coarse sandy loam to extremely gravelly sandy loam	GP, GM, GP-GM	A-1	0-10	10-40	15-40	5-30	0-25	0-20	15-25	NP-5
0551: Urmafot-----	0-7	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	7-16	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	16-29	indurated			---	---	---	---	---	---	---	---
	29-60	stratified extremely gravelly coarse sandy loam to extremely gravelly sandy loam	GM, GP, GP-GM	A-1	0-10	10-40	15-40	5-30	0-25	0-20	15-25	NP-5
Bobs-----	0-8	gravelly loam	ML, GM, SM	A-4	0	0-15	70-80	65-75	55-70	40-55	20-25	NP-5
	8-13	gravelly loam, gravelly very fine sandy loam, gravelly silt loam	GM, SM	A-4	0	0-15	60-80	50-75	45-70	35-50	20-25	NP-5
	13-17	indurated			---	---	---	---	---	---	---	---
552: Urmafot-----	0-7	very gravelly loam	GM	A-1, A-2	0	0	30-60	25-50	20-45	15-35	25-35	NP-5
	7-16	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	16-29	indurated			---	---	---	---	---	---	---	---
	29-60	stratified extremely gravelly coarse sandy loam to extremely gravelly sandy loam	GP, GM, GP-GM	A-1	0-10	10-40	15-40	5-30	0-25	0-20	15-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Pharo-----	0-13	gravelly loam	GC-GM, SC-SM	A-4	0	0	55-80	50-75	40-60	35-50	25-30	5-10
	13-36	very gravelly loam, extremely gravelly sandy loam	GC-GM	A-2	0	0-5	25-40	20-35	15-30	10-20	20-30	5-10
	36-60	extremely gravelly coarse sand	GP, GP-GM	A-1	0	0-10	25-30	20-25	10-15	0-10	0-14	NP
0554: Urmafot-----	0-7	very gravelly loam	GM	A-1, A-2	0	0	30-60	25-50	20-45	15-35	25-35	NP-5
	7-16	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	16-29	indurated			---	---	---	---	---	---	---	---
	29-60	stratified extremely gravelly coarse sandy loam to extremely gravelly sandy loam	GP, GM, GP-GM	A-1	0-10	10-40	15-40	5-30	0-25	0-20	15-25	NP-5
Tecomar-----	0-2	extremely gravelly loam	GC	A-2	0	5-30	20-35	15-30	10-25	10-20	25-35	10-15
	2-14	extremely cobbly silt loam, very cobbly silt loam	GC	A-2, A-6	0-15	45-60	35-55	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Urmafot-----	0-7	very gravelly loam	GM	A-1, A-2	0	0	30-60	25-50	20-45	15-35	25-35	NP-5
	7-9	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	9-29	indurated			---	---	---	---	---	---	---	---
	29-60	stratified extremely gravelly coarse sandy loam to extremely gravelly sandy loam	GM, GP-GM, GP	A-1	0-10	10-40	15-40	5-30	0-25	0-20	15-25	NP-5
0561: Palinox-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Urmafot-----	0-7	very gravelly loam	GM	A-1, A-2	0	0	30-60	25-50	20-45	15-35	25-35	NP-5
	7-16	gravelly loam	GM, ML	A-2, A-4	0	0	60-80	50-75	40-65	30-60	25-35	NP-5
	16-29	indurated			---	---	---	---	---	---	---	---
	29-60	stratified extremely gravelly coarse sandy loam to extremely gravelly sandy loam	GP, GM, GP-GM	A-1	0-10	10-40	15-40	5-30	0-25	0-20	15-25	NP-5
Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP
0562: Bobs-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-15	40-55	35-50	30-45	20-35	20-25	NP-5
	8-13	gravelly loam, gravelly very fine sandy loam, gravelly silt loam	GM, SM	A-4	0	0-15	60-80	50-75	45-70	35-50	20-25	NP-5
	13-17	indurated			---	---	---	---	---	---	---	---
0563: Bobs-----	0-8	cobbly loam	GM, SM, ML	A-4	0	15-30	70-80	65-75	55-70	40-55	20-25	NP-5
	8-13	gravelly loam, gravelly very fine sandy loam, gravelly silt loam	GM, SM	A-4	0	0-15	60-80	50-75	45-70	35-50	20-25	NP-5
	13-17	indurated			---	---	---	---	---	---	---	---
Pyrat-----	0-6	very stony sandy loam	GM	A-1, A-2	5-25	0-10	40-55	35-50	25-45	15-30	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GP, GM, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
0575: Pookaloo-----	0-2	very gravelly loam	GM	A-2	0	0-5	50-60	35-50	30-40	25-35	20-25	NP-5
	2-14	very gravelly loam, very gravelly silt loam	GM	A-2, A-4	0	0	50-60	35-50	35-45	25-40	20-25	NP-5
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Cavehill-----	0-12	very gravelly silt loam	GC-GM, GM	A-2	0	0-15	40-55	35-50	30-45	25-35	25-35	5-10
	12-30	very gravelly loam, very cobbly loam	GC-GM, GM	A-2, A-4	0-5	10-45	35-70	30-65	25-50	20-40	25-35	5-10
	30-34	unweathered bedrock			---	---	---	---	---	---	---	---
Rock Outcrop---	---	---	---	---	---	---	---	---	---	---	---	---
0576: Pookaloo-----	0-2	very gravelly loam	GM	A-2	0	0-5	50-60	35-50	30-40	25-35	20-25	NP-5
	2-14	very gravelly loam, very gravelly silt loam	GM	A-2, A-4	0	0	50-60	35-50	35-45	25-40	20-25	NP-5
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Tecomar-----	0-2	extremely gravelly loam	GC	A-2	0	5-30	20-35	15-30	10-25	10-20	25-35	10-15
	2-14	extremely cobbly silt loam, very cobbly silt loam	GC	A-2, A-6	0-15	45-60	35-55	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Onkeyo-----	0-8	very gravelly silt loam	GC	A-2, A-6	0	0-15	40-65	30-55	25-50	20-45	25-35	10-15
	8-17	extremely cobbly silty clay loam, very cobbly silty clay loam	GM, SM	A-6, A-2, A-7	0-10	35-60	55-75	20-50	20-50	15-45	35-45	10-15
	17-21	unweathered bedrock			---	---	---	---	---	---	---	---
0582: Sheffit-----	0-10	fine sandy loam	ML	A-4	0	0	100	95-100	80-90	50-70	20-25	NP-5
	10-60	stratified silt loam to clay	CL, ML, MH	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25
Sheffit-----	0-4	sandy loam	SM	A-4	0	0	100	90-100	70-80	40-50	20-25	NP-5
	4-60	stratified silt loam to clay	CL, MH, ML	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25
Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-62	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
0590: Upatad-----	0-1	very gravelly silt loam	GC-GM, GM	A-2, A-4	0	0	35-60	25-50	20-45	15-40	25-35	5-10
	1-14	very gravelly silty clay loam, very gravelly clay loam, very cobble silty clay loam	GC	A-2, A-6	0	15-55	40-70	30-65	25-60	20-50	35-40	15-20
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Segura-----	0-2	very cobbly loam	GC-GM, SC-SM	A-4	0-5	30-45	65-80	55-70	45-60	35-50	25-30	5-10
	2-11	gravelly clay loam, gravelly loam, sandy clay loam	SC	A-2, A-7, A-6	0-5	0-15	65-90	50-85	40-60	30-50	30-45	10-25
	11-15	unweathered bedrock			---	---	---	---	---	---	---	---
0600: Onkeyo-----	0-8	very gravelly silt loam	GC	A-2, A-6	0	0-15	40-65	30-55	25-50	20-45	25-35	10-15
	8-17	extremely cobble silty clay loam, very cobble silty clay loam	GM, SM	A-6, A-2, A-7	0-10	35-60	55-75	20-50	20-50	15-45	35-45	10-15
	17-21	unweathered bedrock			---	---	---	---	---	---	---	---
Amene-----	0-12	very gravelly silt loam	GC	A-2, A-6	0	0	40-55	35-50	30-45	25-45	30-35	10-15
	12-18	very gravelly silt loam, very gravelly loam	GC	A-2, A-6	0	0-25	35-60	30-45	25-45	20-40	30-35	10-15
	18-22	unweathered bedrock			---	---	---	---	---	---	---	---
Pookaloo-----	0-2	very gravelly loam	GM	A-2	0	0-5	50-60	35-50	30-40	25-35	20-25	NP-5
	2-14	very gravelly loam, very gravelly silt loam	GM	A-2, A-4	0	0	50-60	35-50	35-45	25-40	20-25	NP-5
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
0610: Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobble loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Eastwell-----	0-5	gravelly sandy loam	SM	A-2, A-1, A-4	0	0-5	65-80	60-75	40-60	20-40	20-25	NP-5
	5-18	very gravelly loam, very gravelly sandy loam	GC-GM, GC, GM	A-1, A-2	0	0-10	40-60	35-50	20-40	10-30	20-35	NP-15
	18-27	cemented			---	---	---	---	---	---	---	---
	27-60	very gravelly loam, very cobbly loam	GC-GM, GM	A-2, A-4	0-5	15-45	50-70	45-60	35-55	30-50	20-30	NP-10
0614: Wintermute-----	0-3	gravelly sandy loam	GM, ML, SM	A-2, A-4	0	0-10	60-85	50-75	40-65	30-55	20-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15
Eastwell-----	0-5	gravelly sandy loam	SM	A-2, A-1, A-4	0	0-5	65-80	60-75	40-60	20-40	20-25	NP-5
	5-18	very gravelly loam, very gravelly sandy loam	GC, GC-GM, GM	A-1, A-2	0	0-10	40-60	35-50	20-40	10-30	20-35	NP-15
	18-27	cemented			---	---	---	---	---	---	---	---
	27-60	very gravelly loam, very cobbly loam	GC-GM, GM	A-2, A-4	0-5	15-45	50-70	45-60	35-55	30-50	20-30	NP-10
Zerk-----	0-2	gravelly loam	SM	A-4	0	0	70-85	60-75	45-60	35-50	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-1, A-2, A-4	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP
0617: Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Zerk-----	0-2	gravelly loam	SM	A-4	0	0	70-85	60-75	45-60	35-50	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-2, A-1, A-4	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP
Loray-----	0-12	gravelly loam	GM, SC-SM, GC-GM, SM	A-2, A-4	0	0	55-80	50-75	40-70	30-50	20-30	NP-10
	12-60	stratified extremely gravelly coarse sand to extremely gravelly loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP
0620: Atlow-----	0-5	very gravelly loam	GC, SC	A-2, A-6	0	0-15	35-85	30-50	20-45	15-40	25-35	10-15
	5-18	very gravelly clay loam, very cobbly clay loam, very gravelly sandy clay loam	GC	A-6, A-2, A-7	0	0-45	35-60	25-50	20-50	15-40	35-45	15-20
	18-22	unweathered bedrock			---	---	---	---	---	---	---	---
Atlow-----	0-5	very gravelly loam	GC, SC	A-2, A-6	0	0-15	35-85	30-50	20-45	15-40	25-35	10-15
	5-18	very gravelly clay loam, very cobbly clay loam, very gravelly sandy clay loam	GC	A-2, A-7, A-6	0	0-45	35-60	25-50	20-50	15-40	35-45	15-20
	18-22	unweathered bedrock			---	---	---	---	---	---	---	---
0631: Eastwell-----	0-5	gravelly sandy loam	SM	A-1, A-2, A-4	0	0-5	65-80	60-75	40-60	20-40	20-25	NP-5
	5-18	very gravelly loam, very gravelly sandy loam	GC, GM, GC-GM	A-1, A-2	0	0-10	40-60	35-50	20-40	10-30	20-35	NP-15
	18-27 27-60	cemented very gravelly loam, very cobbly loam	GC-GM, GM	A-2, A-4	0-5	15-45	50-70	45-60	35-55	30-50	20-30	NP-10
Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-55	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-55	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0636: Eastwell-----	0-5	very gravelly loam	GM	A-1, A-2	0	0-5	35-55	30-50	25-40	20-35	20-25	NP-5
	5-18	very gravelly loam, very gravelly sandy loam	GC, GM, GC-GM	A-1, A-2	0	0-10	40-60	35-50	20-40	10-30	20-35	NP-15
	18-27	cemented			---	---	---	---	---	---	---	---
	27-60	very gravelly loam, very cobbly loam	GC-GM, GM	A-2, A-4	0-5	15-45	50-70	45-60	35-55	30-50	20-30	NP-10
Hundraw-----	0-5	gravelly fine sandy loam	GM, GC-GM, SC-SM, SM	A-1, A-2, A-4	0	0	60-80	55-75	40-60	20-40	20-30	NP-10
	5-10	fine sandy loam, loam	ML, CL-ML, SC-SM, SM	A-2, A-4	0	0	80-95	75-90	55-80	30-70	20-30	NP-10
	10-14	weathered bedrock			---	---	---	---	---	---	---	---
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
0650: Mizpah-----	0-9	sandy loam	SC-SM, SM	A-4	0	0	80-95	75-90	60-75	40-50	20-30	NP-10
	9-32	silty clay	CH, CL	A-7	0	0	90-100	85-100	75-90	65-75	45-55	20-30
	32-40	weathered bedrock			---	---	---	---	---	---	---	---
Zerk-----	0-2	gravelly sandy loam	GM, SM	A-1, A-4, A-2	0	0	55-80	50-75	40-60	20-40	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-1, A-4, A-2	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP
Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15
0671: Idway-----	0-4	sandy loam	SM	A-2, A-4	0	0	85-100	75-100	45-75	25-50	15-25	NP-5
	4-12	sandy loam	SM	A-2, A-4	0	0	90-100	85-100	45-75	25-50	15-25	NP-5
	12-27	loam	ML	A-4	0	0	95-100	90-100	50-80	50-70	15-25	NP-5
	27-60	stratified extremely gravelly coarse sand to fine sand	GM, GP-GM, SP-SM, SM	A-1	0	0	50-80	35-70	15-45	5-25	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
0691: Tarnach-----	0-3	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	3-12	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
Tarnach-----	0-3	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	3-12	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
Wesfil-----	0-6	very channery loam	GC-GM	A-2	0	10-25	50-65	35-50	25-45	20-35	20-25	5-10
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
0692: Tarnach-----	0-3	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	3-12	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
Upatad-----	0-2	very gravelly silt loam	GC-GM, GM	A-2, A-4	0	0	35-60	25-50	20-45	15-40	25-35	5-10
	2-14	very gravelly silty clay loam, very gravelly clay loam, very cobbly silty clay loam	GC	A-2, A-6	0	15-55	40-70	30-65	25-60	20-50	35-40	15-20
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Wesfil-----	0-6	very channery loam	GC-GM	A-2	0	10-25	50-65	35-50	25-45	20-35	20-25	5-10
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
0700: Shabliss-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	68-85	55-75	50-65	25-45	20-25	NP-5
	2-15	loam, very fine sandy loam	ML	A-4	0	0	95-100	90-100	85-95	50-65	15-20	NP-5
	15-31	cemented			---	---	---	---	---	---	---	---
	31-60	very gravelly loamy sand	GM	A-1	0	0-15	35-55	30-50	15-30	10-20	---	NP
Tulase-----	0-2	very fine sandy loam	CL-ML, ML	A-4	0	0	100	100	95-100	60-70	15-25	NP-10
	2-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	95-100	90-100	85-100	70-85	15-25	NP-10
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
0720: Mysol-----	0-5	silty clay loam	CL	A-6, A-7	0	0	100	100	85-95	80-90	35-45	15-20
	5-17	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	17-31	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	31-60	stratified very gravelly coarse sand to fine sandy loam	SM	A-4	0	0-10	75-100	70-100	60-70	35-50	---	NP
Mysol-----	0-5	silty clay loam	CL	A-6, A-7	0	0	100	100	85-95	80-90	35-45	15-20
	5-17	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	17-31	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	31-60	stratified very gravelly coarse sand to fine sandy loam	SM	A-4	0	0-10	75-100	70-100	60-70	35-50	---	NP
0730: Idway-----	0-4	loamy sand	SM, SP-SM	A-1, A-2	0	0	85-100	75-100	15-40	5-30	---	NP
	4-12	sandy loam	SM	A-2, A-4	0	0	90-100	85-100	45-75	25-50	15-25	NP-5
	12-27	loam	ML	A-4	0	0	95-100	90-100	50-80	50-70	15-25	NP-5
	27-60	stratified extremely gravelly coarse sand to fine sand	GM, GP-GM, SP-SM, SM	A-1	0	0	50-80	35-70	15-45	5-25	---	NP
Kawich-----	0-2	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
	2-60	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
Mysol-----	0-5	silt loam	CL	A-6	0	0	100	100	70-85	60-70	30-35	10-15
	5-17	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	17-31	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	31-60	stratified very gravelly coarse sand to fine sandy loam	SM	A-4	0	0-10	75-100	70-100	60-70	35-50	---	NP
0733: Idway-----	0-4	loamy sand	SM, SP-SM	A-1, A-2	0	0	85-100	75-100	15-40	5-30	---	NP
	4-12	sandy loam	SM	A-2, A-4	0	0	90-100	85-100	45-75	25-50	15-25	NP-5
	12-27	loam	ML	A-4	0	0	95-100	90-100	50-80	50-70	15-25	NP-5
	27-60	stratified extremely gravelly coarse sand to fine sand	GM, GP-GM, SP-SM, SM	A-1	0	0	50-80	35-70	15-45	5-25	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
Idway-----	0-4	sandy loam	SM	A-2, A-4	0	0	85-100	75-100	45-75	25-50	15-25	NP-5
	4-12	sandy loam	SM	A-2, A-4	0	0	90-100	85-100	45-75	25-50	15-25	NP-5
	12-27	loam	ML	A-4	0	0	95-100	90-100	50-80	50-70	15-25	NP-5
	27-60	stratified extremely gravelly coarse sand to fine sand	GP-GM, GM, SM, SP-SM	A-1	0	0	50-80	35-70	15-45	5-25	---	NP
Mysol-----	0-5	silty clay loam	CL	A-6, A-7	0	0	100	100	85-95	80-90	35-45	15-20
	5-17	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	17-31	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	31-60	stratified very gravelly coarse sand to fine sandy loam	SM	A-4	0	0-10	75-100	70-100	60-70	35-50	---	NP
0740: Upatad-----	0-1	extremely cobble loam	GC, GC-GM	A-2	0	30-50	40-45	35-40	30-35	25-30	25-35	5-15
	1-14	very gravelly clay loam, very cobbly silty clay loam	GC	A-2, A-6	0	15-55	40-70	30-65	25-60	20-45	35-40	15-20
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Pioche-----	0-2	extremely stony loam	GM, SM	A-2, A-4	20-50	15-55	60-85	50-75	40-60	30-50	15-25	NP-5
	2-12	very cobbly clay, very cobbly clay loam	CH, GC, CL	A-7	5-10	20-40	60-70	55-65	45-60	35-55	40-55	20-30
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
Tarnach-----	0-3	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	3-12	very gravelly loam	GC, GC-GM	A-2	0	0-10	30-55	25-50	25-40	20-35	25-35	5-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
0760: Playas-----	0-6	silty clay loam	CH, CL, ML, MH	A-7	0	0	100	100	100	90-100	40-55	15-25
	6-60	silty clay loam, clay, silty clay	CH, MH, CL	A-7	0	0	100	100	100	90-100	45-75	20-40
0761: Umberland-----	0-5	silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	45-55	25-30
	5-60	silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	40-55	25-30
Umberland-----	0-15	silty clay	CH, ML, CL, MH	A-7	0	0	100	100	95-100	85-95	45-55	20-25
	15-60	silty clay, silty clay loam, clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	20-30

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
0762: Umberland-----	0-5	silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	45-55	25-30
	5-60	silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	40-55	25-30
Playas-----	0-6	silty clay loam	CL, CH, MH, ML	A-7	0	0	100	100	100	90-100	40-55	15-25
	6-60	silty clay loam, clay, silty clay	CH, MH, CL	A-7	0	0	100	100	100	90-100	45-75	20-40
0763: Equis-----	0-6	silty clay	MH	A-7	0	0	100	100	95-100	95-100	60-80	20-30
	6-24	silty clay, clay	MH	A-7	0	0	100	100	95-100	95-100	60-80	20-30
	24-41	silty clay loam, silty clay	MH	A-7	0	0	100	100	95-100	95-100	50-70	15-25
	41-60	silty clay loam, silt loam, silty clay	MH, ML	A-6, A-7	0	0	100	95-100	90-100	85-95	35-70	10-25
Umberland-----	0-15	silty clay	CH, CL, ML, MH	A-7	0	0	100	100	95-100	85-95	45-55	20-25
	15-60	silty clay, silty clay loam, clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	20-30
Duffer-----	0-25	silty clay loam	CL	A-6	0	0	100	100	95-100	85-95	35-40	15-20
	25-60	silt loam, silty clay loam	CL	A-6	0	0	100	100	95-100	85-95	30-40	10-20
0764: Umberland-----	0-15	silty clay loam	CL, ML	A-7	0	0	100	100	90-100	85-95	40-50	15-20
	15-60	silty clay, silty clay loam, clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	20-30
Rubylake-----	0-7	clay loam	CL	A-6	0	0	100	100	85-95	80-90	35-40	15-20
	7-23	silt loam	ML	A-4	0	0	100	100	95-100	85-90	30-40	5-10
	23-55	silt loam	ML	A-4	0	0	100	100	95-100	85-90	30-40	5-10
	55-60	silt loam, silty clay loam	CL, ML	A-6, A-7	0	0	100	100	90-100	80-85	35-45	10-20
Orupa-----	0-6	silty clay loam	CL	A-7	0	0	100	100	80-100	80-100	40-50	20-30
	6-60	clay loam, silty clay, clay	CH, CL	A-7	0	0	100	100	80-100	80-90	40-55	20-30
0765: Umberland-----	0-5	silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	45-55	25-30
	5-60	silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	40-55	25-30
Umberland-----	0-15	silty clay	CH, CL, ML, MH	A-7	0	0	100	100	95-100	85-95	45-55	20-25
	15-60	silty clay, silty clay loam, clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	20-30

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In											
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
0767: Umberland-----	0-15	silty clay	CL, CH, MH, ML	A-7	0	0	100	100	95-100	85-95	45-55	20-25
	15-60	silty clay, silty clay loam, clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	20-30
Umberland-----	0-5	silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	45-55	25-30
	5-60	silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	95-100	85-100	40-55	25-30
Orupa-----	0-6	silty clay	CH, CL	A-7	0	0	100	100	80-100	80-100	45-60	25-40
	6-60	clay loam, silty clay, clay	CH, CL	A-7	0	0	100	100	80-100	80-90	40-55	20-30
0781: Mysol-----	0-5	silty clay loam	CL	A-6, A-7	0	0	100	100	85-95	80-90	35-45	15-20
	5-17	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	17-31	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	31-60	stratified very gravelly coarse sand to fine sandy loam	SM	A-4	0	0-10	75-100	70-100	60-70	35-50	---	NP
Benin-----	0-7	silt loam	CL-ML, ML	A-4	0	0	100	95-100	75-90	70-85	25-35	5-10
	7-60	clay, silty clay	CH, MH, CL	A-7	0	0	100	100	90-100	85-95	45-55	20-25
Wendane-----	0-8	silty clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
0800: Mazuma-----	0-15	silt loam	ML	A-4	0	0	95-100	85-100	70-90	50-65	20-25	NP-5
	15-60	stratified gravelly coarse sand to silt loam	SM	A-4	0	0	95-100	80-100	70-90	35-50	20-25	NP-5
Toano-----	0-9	silt loam	ML	A-4, A-5	0	0	100	95-100	85-100	85-100	30-50	NP-5
	9-27	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
	27-60	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
0801: Mazuma-----	0-15 15-60	silt loam stratified gravelly coarse sand to silt loam	ML SM	A-4 A-4	0 0	0 0	95-100 95-100	85-100 80-100	70-90 70-90	50-65 35-50	20-25 20-25	NP-5 NP-5
Zerk-----	0-2 2-16 16-60	gravelly loam gravelly loam, very gravelly loam stratified extremely gravelly coarse sand to extremely gravelly loamy sand	SM GM, SM GP, GP-GM	A-4 A-2, A-1, A-4 A-1	0 0 0	0 0-10 15-30	70-85 50-85 25-40	60-75 40-75 15-30	45-60 30-60 5-15	35-50 20-50 0-10	20-25 20-25 ---	NP-5 NP-5 NP
Okan-----	0-8 8-38 38-60	sandy loam sandy loam stratified extremely gravelly loamy sand	SM SM GM, GP-GM	A-2 A-2 A-1	0 0 0	0 0-10 0-15	90-95 90-95 30-45	85-95 85-95 25-40	50-60 50-60 10-30	25-35 25-35 5-15	15-25 15-25 ---	NP-5 NP-5 NP
0804: Mazuma-----	0-15 15-60	silt loam stratified gravelly coarse sand to silt loam	ML SM	A-4 A-4	0 0	0 0	95-100 95-100	85-100 80-100	70-90 70-90	50-65 35-50	20-25 20-25	NP-5 NP-5
Kawich-----	0-2 2-60	fine sand fine sand	SM SM	A-2 A-2	0 0	0 0	100 100	100 100	75-90 75-90	20-30 20-30	--- ---	NP NP
Playas-----	0-6 6-60	silty clay loam silty clay loam, clay, silty clay	CH, CL, ML, MH CH, MH, CL	A-7 A-7	0 0	0 0	100 100	100 100	100 100	90-100 90-100	40-55 45-75	15-25 20-40
0807: Mazuma-----	0-15 15-60	silt loam stratified gravelly coarse sand to silt loam	ML SM	A-4 A-4	0 0	0 0	95-100 95-100	85-100 80-100	70-90 70-90	50-65 35-50	20-25 20-25	NP-5 NP-5
Kunzler-----	0-5 5-48 48-60	loam fine sandy loam, sandy loam loam	CL-ML, ML SC-SM, SM CL-ML, ML	A-4 A-2, A-4 A-4	0 0 0	0 0 0	90-100 90-100 90-100	85-100 85-100 85-100	65-95 45-80 65-95	50-75 25-50 50-75	20-30 20-30 20-30	NP-10 NP-10 NP-10
Zerk-----	0-2 2-16 16-60	gravelly sandy loam gravelly loam, very gravelly loam stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GM, SM GM, SM GP, GP-GM	A-1, A-2, A-4 A-2, A-1, A-4 A-1	0 0 0	0 0-10 15-30	55-80 50-85 25-40	50-75 40-75 15-30	40-60 30-60 5-15	20-40 20-50 0-10	20-25 20-25 ---	NP-5 NP-5 NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0823: Kunzler-----	0-16	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	16-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Blimo-----	0-8	gravelly loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	20-25	NP-5
	8-21	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	25-45	20-25	NP-5
	21-36	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	36-60	sandy loam	SM	A-4	0	0	80-100	75-95	60-70	35-50	20-25	NP-5
0824: Kunzler-----	0-16	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	16-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
0827: Kunzler-----	0-16	silt loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	16-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
James Canyon----	0-8	fine sandy loam	SC-SM	A-4	0	0	100	100	75-90	35-50	20-25	5-10
	8-33	stratified gravelly loam to silt loam	GC, SC	A-2, A-6	0	0	60-85	50-75	40-60	25-40	25-35	10-15
	33-60	fine sandy loam	SC-SM	A-2, A-4	0	0	95-100	90-100	75-85	30-50	20-25	5-10
James Canyon----	0-31	loam	ML	A-4	0	0-5	90-100	75-85	65-75	55-65	25-35	NP-10
	31-60	stratified gravelly loam to clay loam	GM	A-4	0	0-5	65-75	60-70	55-65	40-50	25-35	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
0828: Kunzler-----	0-16	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	16-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP-GM, GP	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
0830: Pharo-----	0-13	gravelly loam	GC-GM, SC-SM	A-4	0	0	55-80	50-75	40-60	35-50	25-30	5-10
	13-36	very gravelly loam, extremely gravelly sandy loam	GC-GM	A-2	0	0-5	25-40	20-35	15-30	10-20	20-30	5-10
	36-60	extremely gravelly coarse sand	GP, GP-GM	A-1	0	0-10	25-30	20-25	10-15	0-10	0-14	NP
Kzin-----	0-3	very gravelly loam	GC	A-2, A-6	0	0-15	40-50	35-50	30-45	25-40	25-35	10-15
	3-9	very gravelly sandy loam, very gravelly loam	GC, GC-GM	A-2, A-6, A-4	0	0-15	40-50	35-50	25-45	15-40	25-35	5-15
	9-13	weathered bedrock			---	---	---	---	---	---	---	---
Pharo-----	0-13	gravelly loam	GC-GM, SC-SM	A-4	0	0	55-80	50-75	40-60	35-50	25-30	5-10
	13-36	very gravelly loam, extremely gravelly sandy loam	GC-GM	A-2	0	0-5	25-40	20-35	15-30	10-20	20-30	5-10
	36-60	extremely gravelly coarse sand	GP, GP-GM	A-1	0	0-10	25-30	20-25	10-15	0-10	0-14	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
0842: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Timpie-----	0-8	silt loam	CL-ML	A-4	0	0	100	100	95-100	65-95	25-30	5-10
	8-19	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
	19-60	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
0843: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Kawich-----	0-2	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
	2-60	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
0845: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Ragtown-----	0-5	silt loam	CL	A-6	0	0	100	100	95-100	85-95	30-40	10-15
	5-26	stratified sandy clay loam to silty clay loam	CL	A-6, A-7	0	0	100	100	80-95	50-75	35-45	15-20
	26-60	stratified silty clay loam to clay	CH, CL, MH	A-7	0	0	100	100	90-100	75-85	40-55	20-25
Timpie-----	0-8	silt loam	CL-ML	A-4	0	0	100	100	95-100	65-95	25-30	5-10
	8-19	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
	19-60	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
0847: Mazuma-----	0-15	silt loam	ML	A-4	0	0	95-100	85-100	70-90	50-65	20-25	NP-5
	15-60	stratified gravelly coarse sand to silt loam	SM	A-4	0	0	95-100	80-100	70-90	35-50	20-25	NP-5
Blimo-----	0-7	silt loam	ML	A-4	0	0	90-100	85-100	60-85	55-75	20-25	NP-5
	7-25	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	25-40	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	40-60	stratified extremely gravelly loamy coarse sand to gravelly coarse sandy loam	GM	A-1, A-2	0	0	55-65	50-60	30-40	20-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15
0850: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	---	---	---	---	---	---	---	---
	34-60				0	0-30	30-50	20-45	15-35	10-30	---	NP
Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
0851: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	---	---	---	---	---	---	---	---
	34-60				0	0-30	30-50	20-45	15-35	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
Zimbob-----	0-1	very gravelly loam	GM	A-1, A-2	0	0-5	50-60	30-50	25-40	15-30	20-25	NP-5
	1-6	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0-5	50-60	30-50	25-40	20-35	20-25	NP-5
	6-10	unweathered bedrock			---	---	---	---	---	---	---	---
Tecomar-----	0-2	extremely gravelly loam	GC	A-2	0	5-30	20-35	15-30	10-25	10-20	25-35	10-15
	2-14	extremely cobbly silt loam, very cobbly silt loam	GC	A-2, A-6	0-15	45-60	35-55	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
0852: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated stratified			---	---	---	---	---	---	---	---
	34-60	extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP
Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GP, GM, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Shabliss-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	68-85	55-75	50-65	25-45	20-25	NP-5
	2-15	loam, very fine sandy loam	ML	A-4	0	0	95-100	90-100	85-95	50-65	15-20	NP-5
	15-31	cemented			---	---	---	---	---	---	---	---
	31-60	very gravelly loamy sand	GM	A-1	0	0-15	35-55	30-50	15-30	10-20	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
0857: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP
Shabliss-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	68-85	55-75	50-65	25-45	20-25	NP-5
	2-15	loam, very fine sandy loam	ML	A-4	0	0	95-100	90-100	85-95	50-65	15-20	NP-5
	15-31	cemented			---	---	---	---	---	---	---	---
	31-60	very gravelly loamy sand	GM	A-1	0	0-15	35-55	30-50	15-30	10-20	---	NP
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10
0858: Palinor-----	0-8	very gravelly loam	GM	A-1, A-2	0	0-10	30-50	25-50	25-45	20-35	20-25	NP-5
	8-16	extremely gravelly loam, very gravelly loam	GM	A-1, A-2	0	0-10	20-45	15-40	10-35	10-30	20-25	NP-5
	16-34	indurated			---	---	---	---	---	---	---	---
	34-60	stratified extremely gravelly coarse sand to gravelly sandy loam	GM	A-1, A-2	0	0-30	30-50	20-45	15-35	10-30	---	NP
Automal-----	0-8	gravelly silt loam	CL-ML, GC-GM, ML, GM	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GC-GM, GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
0870: Theriot-----	0-7	very gravelly silt loam	GM	A-1, A-2	0	0-10	30-55	25-50	20-40	15-35	15-25	NP-5
	7-18	very stony loam, very cobbly fine sandy loam, very cobbly loam	GM	A-2, A-4	5-25	25-45	40-75	35-70	30-60	25-50	15-25	NP-5
	18-22	unweathered bedrock			---	---	---	---	---	---	---	---
Zimbob-----	0-2	very gravelly loam	GM	A-1, A-2	0	0-10	50-65	30-50	25-40	20-35	20-25	NP-5
	2-11	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0-15	40-60	30-50	25-40	20-35	20-25	NP-5
	11-15	unweathered bedrock			---	---	---	---	---	---	---	---
0880: Duffer-----	0-4	silt loam	CL	A-6	0	0	100	100	95-100	85-95	30-35	10-15
	4-60	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	85-95	30-45	10-20
Duffer-----	0-25	silty clay loam	CL	A-6	0	0	100	100	95-100	85-95	35-40	15-20
	25-60	silt loam, silty clay loam	CL	A-6	0	0	100	100	95-100	85-95	30-40	10-20
Kolda-----	0-4	silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	70-90	25-35	5-15
	4-11	silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	65-90	25-35	5-15
	11-60	clay, silty clay	CH, CL	A-7	0	0	100	100	95-100	90-100	45-60	20-30
0881: Duffer-----	0-4	silt loam	CL	A-6	0	0	100	100	95-100	85-95	30-35	10-15
	4-60	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	85-95	30-45	10-20
Kunzler-----	0-16	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	16-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
0882: Duffer-----	0-25	silty clay loam	CL	A-6	0	0	100	100	95-100	85-95	35-40	15-20
	25-60	silt loam, silty clay loam	CL	A-6	0	0	100	100	95-100	85-95	30-40	10-20
Kolda-----	0-4	silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	70-90	25-35	5-15
	4-11	silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	65-90	25-35	5-15
	11-60	clay, silty clay	CH, CL	A-7	0	0	100	100	95-100	90-100	45-60	20-30

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
0894: Zerk-----	0-2	gravelly sandy loam	GM, SM	A-1, A-2, A-4	0	0	55-80	50-75	40-60	20-40	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-2, A-1, A-4	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP
Threese-----	0-3	very gravelly sandy loam	GC-GM	A-2	0	0	30-55	25-50	20-40	10-20	20-25	5-10
	3-14	gravelly loam	GC-GM, SC-SM	A-2, A-4	0	0	55-80	50-75	40-60	30-50	20-30	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
Mazuma-----	0-15	silt loam	ML	A-4	0	0	95-100	85-100	70-90	50-65	20-25	NP-5
	15-60	stratified gravelly coarse sand to silt loam	SM	A-4	0	0	95-100	80-100	70-90	35-50	20-25	NP-5
0900: Zerk-----	0-2	gravelly sandy loam	GM, SM	A-1, A-2, A-4	0	0	55-80	50-75	40-60	20-40	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-2, A-1, A-4	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP
Automal-----	0-8	gravelly silt loam	GC-GM, CL-ML, GM, ML	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GM, GC-GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
0910: Ragtown-----	0-16	silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	35-45	20-30
	16-60	stratified silty clay loam to clay	CH, CL	A-7	0	0	100	100	90-100	75-95	45-65	30-50
Ragtown-----	0-5	silt loam	CL	A-6	0	0	100	100	95-100	85-95	30-40	10-15
	5-26	stratified sandy clay loam to silty clay loam	CL	A-6, A-7	0	0	100	100	80-95	50-75	35-45	15-20
	26-60	stratified silty clay loam to clay	CL, CH, MH	A-7	0	0	100	100	90-100	75-85	40-55	20-25
0912: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
0914: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Benin-----	0-7	silt loam	CL-ML, ML	A-4	0	0	100	95-100	75-90	70-85	25-35	5-10
	7-60	clay, silty clay	CH, MH, CL	A-7	0	0	100	100	90-100	85-95	45-55	20-25
Sheffit-----	0-4	sandy loam	SM	A-4	0	0	100	90-100	70-80	40-50	20-25	NP-5
	4-60	stratified silt loam to clay	CL, MH, ML	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25
0917: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Sheffit-----	0-4	silt loam	CL-ML, ML	A-4	0	0	100	95-100	80-100	65-85	25-35	5-10
	4-60	stratified silt loam to clay	CL, MH, ML	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Ragtown-----	0-16	silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	35-45	20-30
	16-60	stratified silty clay loam to clay	CH, CL	A-7	0	0	100	100	90-100	75-95	45-65	30-50
0918: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Zorravista-----	0-6	loamy fine sand	SM	A-2	0	0	100	100	75-90	10-35	---	NP
	6-60	fine sand, sand	SM, SP-SM	A-2, A-3	0	0	100	100	65-80	5-30	---	NP
Playas-----	0-6	silty clay loam	CL, CH, MH, ML	A-7	0	0	100	100	100	90-100	40-55	15-25
	6-60	silty clay loam, clay, silty clay	CL, CH, MH	A-7	0	0	100	100	100	90-100	45-75	20-40
0930: Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
Toano-----	0-9	silt loam	ML	A-4, A-5	0	0	100	95-100	85-100	85-100	30-50	NP-5
	9-27	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
	27-60	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
Loray-----	0-12	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	60-80	55-75	45-60	20-30	20-25	NP-5
	12-60	stratified extremely gravelly coarse sand to extremely gravelly loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP
0932: Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
0941: Sheffit-----	0-4	silt loam	CL-ML, ML	A-4	0	0	100	95-100	80-100	65-85	25-35	5-10
	4-60	stratified silt loam to clay	CL, MH, ML	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25
Sheffit-----	0-10	fine sandy loam	ML	A-4	0	0	100	95-100	80-90	50-70	20-25	NP-5
	10-60	stratified silt loam to clay	CL, ML, MH	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25
Zorravista-----	0-6	loamy fine sand	SM	A-2	0	0	100	100	75-90	10-35	---	NP
	6-60	fine sand, sand	SM, SP-SM	A-2, A-3	0	0	100	100	65-80	5-30	---	NP
0943: Sheffit-----	0-4	silt loam	CL-ML, ML	A-4	0	0	100	95-100	80-100	65-85	25-35	5-10
	4-60	stratified silt loam to clay	CL, MH, ML	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25
Umlerland-----	0-15	silty clay	CL, MH, CH, ML	A-7	0	0	100	100	95-100	85-95	45-55	20-25
	15-60	silty clay, silty clay loam, clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	20-30
0960: Gravier-----	0-3	very gravelly sandy loam	GM	A-1, A-2	0	0	40-65	35-50	25-40	10-30	15-25	NP-5
	3-60	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5
Zerk-----	0-2	gravelly sandy loam	GM, SM	A-1, A-2, A-4	0	0	55-80	50-75	40-60	20-40	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-2, A-1, A-4	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Tecomar-----	0-2	extremely gravelly loam	GC	A-2	0	5-30	20-35	15-30	10-25	10-20	25-35	10-15
	2-14	extremely cobbly silt loam, very cobbly silt loam	GC	A-2, A-6	0-15	45-60	35-55	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
1000: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP-GM, GP	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Zerk-----	0-2	gravelly sandy loam	GM, SM	A-1, A-4, A-2	0	0	55-80	50-75	40-60	20-40	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-1, A-2, A-4	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP
1001: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP-GM, GP	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Eastwell-----	0-5	gravelly sandy loam	SM	A-2, A-1, A-4	0	0-5	65-80	60-75	40-60	20-40	20-25	NP-5
	5-18	very gravelly loam, very gravelly sandy loam	GC, GC-GM, GM	A-1, A-2	0	0-10	40-60	35-50	20-40	10-30	20-35	NP-15
	18-27 27-60	cemented very gravelly loam, very cobbly loam	GC-GM, GM	A-2, A-4	0-5	15-45	50-70	45-60	35-55	30-50	20-30	NP-10
1002: Threese-----	0-3	very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0	30-55	25-50	10-30	5-15	---	NP
	3-14	gravelly loam	GC-GM, SC-SM	A-2, A-4	0	0	55-80	50-75	40-60	30-50	20-30	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
Kunzler-----	0-5	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	5-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
Threese-----	0-3	very gravelly sandy loam	GC-GM	A-2	0	0	30-55	25-50	20-40	10-20	20-25	5-10
	3-14	gravelly loam	GC-GM, SC-SM	A-2, A-4	0	0	55-80	50-75	40-60	30-50	20-30	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
1003: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Hundraw-----	0-5	gravelly fine sandy loam	GM, GC-GM, SC-SM, SM	A-1, A-2, A-4	0	0	60-80	55-75	40-60	20-40	20-30	NP-10
	5-10	fine sandy loam, loam	CL-ML, SM, ML, SC-SM	A-2, A-4	0	0	80-95	75-90	55-80	30-70	20-30	NP-10
	10-14	weathered bedrock			---	---	---	---	---	---	---	---
Tulase-----	0-2	very fine sandy loam	CL-ML, ML	A-4	0	0	100	100	95-100	60-70	15-25	NP-10
	2-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	95-100	90-100	85-100	70-85	15-25	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
1004: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GP, GM, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Parisa-----	0-5	gravelly loam	GM, SM	A-2, A-4	0	0-10	60-85	50-75	40-65	30-50	20-30	NP-5
	5-36	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0-10	35-60	25-50	20-40	15-35	20-30	NP-5
	36-55	indurated			---	---	---	---	---	---	---	---
	55-60	extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0	0-15	15-35	10-25	5-15	0-10	---	NP
Tulase-----	0-2	very fine sandy loam	CL-ML, ML	A-4	0	0	100	100	95-100	60-70	15-25	NP-10
	2-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	95-100	90-100	85-100	70-85	15-25	NP-10
1005: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Zerk-----	0-2	gravelly fine sandy loam	SM	A-2, A-4	0	0	65-85	55-75	45-65	30-50	20-25	NP-5
	2-16	gravelly loam, very gravelly loam	GM, SM	A-1, A-2, A-4	0	0-10	50-85	40-75	30-60	20-50	20-25	NP-5
	16-60	stratified extremely gravelly coarse sand to extremely gravelly loamy sand	GP, GP-GM	A-1	0	15-30	25-40	15-30	5-15	0-10	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Parisa-----	0-5	gravelly loam	GM, SM	A-2, A-4	0	0-10	60-85	50-75	40-65	30-50	20-30	NP-5
	5-36	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0-10	35-60	25-50	20-40	15-35	20-30	NP-5
	36-55	indurated			---	---	---	---	---	---	---	---
	55-60	extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0	0-15	15-35	10-25	5-15	0-10	---	NP
1006: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP-GM, GP	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Blimo-----	0-7	sandy loam	SM	A-4	0	0	90-100	85-100	60-75	40-50	20-25	NP-5
	7-25	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	25-40	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	40-60	stratified extremely gravelly loamy coarse sand to gravelly coarse sandy loam	GM	A-1, A-2	0	0	55-65	50-60	30-40	20-30	---	NP
1007: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GP, GM, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Parisa-----	0-5	gravelly loam	GM, SM	A-2, A-4	0	0-10	60-85	50-75	40-65	30-50	20-30	NP-5
	5-36	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0-10	35-60	25-50	20-40	15-35	20-30	NP-5
	36-55	indurated			---	---	---	---	---	---	---	---
	55-60	extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0	0-15	15-35	10-25	5-15	0-10	---	NP
Automal-----	0-8	gravelly silt loam	GC-GM, GM, CL-ML, ML	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GM, GC-GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
1009: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP-GM, GP	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Tulase-----	0-2	very fine sandy loam	CL-ML, ML	A-4	0	0	100	100	95-100	60-70	15-25	NP-10
	2-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	95-100	90-100	85-100	70-85	15-25	NP-10
Wintermute-----	0-3	gravelly silt loam	GM, ML	A-4	0	0-10	60-85	50-75	45-65	35-60	15-25	NP-5
	3-15	gravelly silt loam, gravelly fine sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	15-25	NP-5
	15-53	stratified extremely cobbly loamy sand to very gravelly sandy loam	GM, GP-GM	A-1	0-15	15-45	25-55	15-45	10-35	5-25	15-25	NP-5
	53-60	gravelly silty clay loam	CL, GC	A-6	0-10	0-10	60-85	50-75	45-70	45-65	30-40	10-15

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
1161: Pharo-----	0-13	gravelly loam	GC-GM, SC-SM	A-4	0	0	55-80	50-75	40-60	35-50	25-30	5-10
	13-36	very gravelly loam, extremely gravelly sandy loam	GC-GM	A-2	0	0-5	25-40	20-35	15-30	10-20	20-30	5-10
	36-60	extremely gravelly coarse sand	GP, GP-GM	A-1	0	0-10	25-30	20-25	10-15	0-10	0-14	NP
Bobs-----	0-8	gravelly loam	GM, ML, SM	A-4	0	0-15	70-80	65-75	55-70	40-55	20-25	NP-5
	8-13	gravelly loam, gravelly very fine sandy loam, gravelly silt loam	GM, SM	A-4	0	0-15	60-80	50-75	45-70	35-50	20-25	NP-5
	13-17	indurated			---	---	---	---	---	---	---	---
Pookaloo-----	0-2	very gravelly loam	GM	A-2	0	0-5	50-60	35-50	30-40	25-35	20-25	NP-5
	2-14	very gravelly loam, very gravelly silt loam	GM	A-2, A-4	0	0	50-60	35-50	35-45	25-40	20-25	NP-5
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
1171: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Automal-----	0-8	gravelly loam	GM, GC-GM, SC-SM, SM	A-2, A-4	0	0	55-80	50-75	35-60	30-50	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GM, GC-GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Gravier-----	0-3	very gravelly sandy loam	GM	A-1, A-2	0	0	40-65	35-50	25-40	10-30	15-25	NP-5
	3-60	stratified extremely gravelly coarse sandy loam to very gravelly loam	GM	A-1	0	0-15	30-55	25-50	15-35	10-25	15-25	NP-5
1172: Pyrat-----	0-6	very stony sandy loam	GM	A-1, A-2	5-25	0-10	40-55	35-50	25-45	15-30	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GP, GM, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
Automa1-----	0-8	very stony sandy loam	GC-GM, GM	A-1, A-2	5-25	0-5	40-60	35-55	25-40	15-30	20-30	NP-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GC-GM, GP-GM, GM, GP-GC	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
Automa1-----	0-8	gravelly loam	GM, GC-GM, SC-SM, SM	A-2, A-4	0	0	55-80	50-75	35-60	30-50	25-35	5-10
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GM, GC-GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1173: Pyrat-----	0-6	gravelly loam	GM, SM	A-4	0	0	65-80	50-75	45-65	35-50	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP-GM, GP	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
	Automal-----	0-8	gravelly silt loam	CL-ML, ML, GC-GM, GM	A-4	0-5	0-5	60-85	50-75	45-70	35-65	25-35
	8-49	very gravelly sandy loam, extremely gravelly sandy loam, very gravelly silt loam	GM, GC-GM, GP-GM	A-1, A-2	0-15	15-30	25-50	15-40	10-35	5-30	20-30	NP-10
	49-60	extremely gravelly loamy coarse sand, extremely gravelly coarse sandy loam	GP, GP-GM	A-1	0-10	0-5	25-35	15-25	5-15	0-10	15-25	NP-5
1174: Pyrat-----	0-6	gravelly sandy loam	GM, SM	A-2, A-4	0	0	55-85	50-75	35-60	25-45	15-25	NP-5
	6-14	very gravelly sandy loam	GM	A-1	0	0	40-60	25-50	20-40	10-25	15-25	NP-5
	14-21	very gravelly loam, very gravelly sandy loam	GM	A-1, A-2	0	0	40-60	25-50	20-45	15-35	15-25	NP-5
	21-42	very gravelly sandy loam	GM	A-1	0	0-10	35-55	25-50	20-40	10-25	15-25	NP-5
	42-60	stratified extremely gravelly loamy sand to very gravelly coarse sandy loam	GM, GP, GP-GM	A-1	0	0-15	15-50	10-45	5-35	0-15	---	NP
	Tosser-----	0-10	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0	35-55	30-50	15-35	10-20	15-25
	10-16	very gravelly loamy sand	GM, GP-GM	A-1	0	0	35-55	30-50	15-30	5-15	0-0	NP
	16-26	extremely gravelly sand, extremely gravelly loamy sand	GP	A-1	0	0	20-30	15-25	5-15	0-5	0-0	NP
	26-60	very gravelly loamy sand	GM	A-1	0	0	35-55	30-50	15-35	10-20	0-0	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
					Pct	Pct					Pct	
1201: Hardol-----	0-13	very gravelly silt loam	GM	A-1, A-2	0-10	10-25	40-55	35-50	25-45	20-35	25-35	NP-5
	13-37	extremely gravelly silt loam	GM	A-1	0-10	15-40	20-40	10-30	10-25	10-20	25-35	NP-5
	37-60	extremely gravelly loam	GM, GP-GM	A-1, A-2	0-10	15-40	20-40	10-30	10-25	5-20	25-35	NP-10
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
Wardbay-----	0-14	very gravelly loam	GC-GM, GM	A-2	0	0-15	35-60	25-50	20-40	15-35	25-35	5-10
	14-55	extremely cobbly silt loam, extremely gravelly silt loam	GC-GM, GM	A-2	0-5	40-55	20-50	10-40	10-35	10-30	25-35	5-10
	55-59	unweathered bedrock			---	---	---	---	---	---	---	---
1210: Blimo-----	0-8	gravelly loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	20-25	NP-5
	8-21	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	25-45	20-25	NP-5
	21-36	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	36-60	sandy loam	SM	A-4	0	0	80-100	75-95	60-70	35-50	20-25	NP-5
Kunzler-----	0-5	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	5-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10
1213: Blimo-----	0-8	sandy loam	SM	A-4	0	0	90-100	85-100	60-75	40-50	20-25	NP-5
	8-21	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	25-45	20-25	NP-5
	21-36	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	36-60	sandy loam	SM	A-4	0	0	80-100	75-95	60-70	35-50	20-25	NP-5
Threesee-----	0-3	gravelly loam	GC-GM, SC-SM	A-4	0	0	65-80	60-75	50-60	35-50	20-30	5-10
	3-14	gravelly loam, gravelly sandy loam	GC-GM, SC-SM	A-4	0	0	65-80	60-75	40-60	35-50	15-25	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
1215: Blimo-----	0-8	sandy loam	SM	A-4	0	0	90-100	85-100	60-75	40-50	20-25	NP-5
	8-21	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	25-45	20-25	NP-5
	21-36	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	36-60	sandy loam	SM	A-4	0	0	80-100	75-95	60-70	35-50	20-25	NP-5
Zorravista-----	0-6	loamy fine sand	SM	A-2	0	0	100	100	75-90	10-35	---	NP
	6-60	fine sand, sand	SM, SP-SM	A-2, A-3	0	0	100	100	65-80	5-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1270: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Sheffit-----	0-4	silt loam	CL-ML, ML	A-4	0	0	100	95-100	80-100	65-85	25-35	5-10
	4-60	stratified silt loam to clay	CL, ML, MH	A-7	0	0	100	95-100	90-100	85-95	40-60	15-25
1271: Uvada-----	0-5	silty clay loam	MH, ML	A-7	0	0	100	100	90-100	80-90	45-55	15-25
	5-8	silty clay	MH	A-7	0	0	100	100	90-100	85-95	55-75	20-35
	8-17	silty clay	MH	A-7	0	0	100	100	90-100	85-95	55-75	20-35
	17-52	stratified silty clay loam to silty clay	MH	A-7	0	0	100	100	90-100	80-95	50-65	15-30
	52-60	stratified silty clay loam to silty clay	MH	A-7	0	0	100	100	90-100	80-95	50-65	15-30
Ragtown-----	0-16	silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	35-45	20-30
	16-60	stratified silty clay loam to clay	CH, CL	A-7	0	0	100	100	90-100	75-95	45-65	30-50
1272: Katelana-----	0-5	silt loam	CL-ML	A-4	0	0	100	100	65-85	60-80	20-30	5-10
	5-28	silt loam	CL	A-6	0	0	100	100	70-90	65-85	25-35	10-15
	28-32	stratified silt loam to silty clay loam	CL	A-6	0	0	100	100	95-100	75-85	25-40	10-20
	32-60	stratified clay loam to silty clay loam	CL	A-7	0	0	100	100	95-100	85-95	40-50	15-25
Kawich-----	0-2	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
	2-60	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
1280: Sycomat-----	0-4	silt loam	CL-ML	A-4	0	0	85-100	80-100	60-90	50-80	20-25	5-10
	4-15	sandy loam	ML, SM	A-4	0	0	85-100	80-100	55-75	40-60	15-25	NP-5
	15-44	sandy loam	ML, SM	A-4	0	0	85-100	80-100	55-75	40-60	15-25	NP-5
	44-60	stratified sand to sandy loam	SM	A-2, A-4	0	0	90-100	85-100	40-65	30-50	---	NP
Kunzler-----	0-16	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	16-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
1281: Sycomat-----	0-4	silt loam	CL-ML	A-4	0	0	85-100	80-100	60-90	50-80	20-25	5-10
	4-15	sandy loam	ML, SM	A-4	0	0	85-100	80-100	55-75	40-60	15-25	NP-5
	15-44	sandy loam	ML, SM	A-4	0	0	85-100	80-100	55-75	40-60	15-25	NP-5
	44-60	stratified sand to sandy loam	SM	A-2, A-4	0	0	90-100	85-100	40-65	30-50	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Mazuma-----	0-15	silt loam	ML	A-4	0	0	95-100	85-100	70-90	50-65	20-25	NP-5
	15-60	stratified gravelly coarse sand to silt loam	SM	A-4	0	0	95-100	80-100	70-90	35-50	20-25	NP-5
1290: Heist-----	0-4	fine sandy loam	SM	A-2, A-4	0	0	85-100	75-100	60-80	25-50	15-25	NP-5
	4-40	fine sandy loam, sandy loam	SM	A-2, A-4	0	0	80-100	75-100	50-80	25-50	15-25	NP-5
	40-60	gravelly fine sandy loam, gravelly sandy loam	GM, SM	A-1, A-2, A-4	0	0	55-80	50-75	35-60	15-40	15-25	NP-5
Blimo-----	0-8	gravelly loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-65	30-50	20-25	NP-5
	8-21	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	25-45	20-25	NP-5
	21-36	gravelly sandy loam	GM, SM	A-2, A-4	0	0	60-85	50-75	40-60	30-45	20-25	NP-5
	36-60	sandy loam	SM	A-4	0	0	80-100	75-95	60-70	35-50	20-25	NP-5
1300: Cavehill-----	0-12	very stony silt loam	GC-GM, GM	A-2, A-4	5-25	15-35	40-65	35-60	30-55	25-40	25-35	5-10
	12-30	very stony loam, very cobble loam, very gravelly loam	GC-GM, GM	A-2, A-4	0-25	5-40	35-70	30-65	25-50	20-40	25-35	5-10
	30-34	unweathered bedrock			---	---	---	---	---	---	---	---
Haunchee-----	0-4	very gravelly loam	GC-GM	A-2	0	0-10	35-60	25-50	20-35	15-30	20-30	5-10
	4-11	very gravelly loam, very gravelly very fine sandy loam	GC-GM	A-2	0	0-30	35-60	25-50	20-35	15-30	20-30	5-10
	11-15	unweathered bedrock			---	---	---	---	---	---	---	---
Hardzem-----	0-5	channery loam	SC-SM	A-4	0	0-25	70-80	65-75	50-70	35-50	20-30	5-10
	5-28	very channery loam, extremely channery loam, extremely channery clay loam	GC	A-2	0-5	10-25	20-50	15-45	10-40	10-35	30-40	10-15
	28-55	weathered bedrock			---	---	---	---	---	---	---	---
1360: Toba-----	0-4	loam	CL	A-6	0	0	100	100	70-85	50-70	30-35	10-15
	4-14	clay loam	CL	A-6	0	0	100	100	75-90	60-70	35-40	15-20
	14-23	loamy fine sand	SM	A-2	0	0	90-100	85-100	75-90	20-35	---	NP
	23-60	fine sand, sand	SP-SM	A-3	0	0	90-100	85-100	75-90	5-10	---	NP
Appian-----	0-3	loam	CL-ML	A-4	0	0	95-100	90-100	75-95	55-70	20-30	5-10
	3-19	clay loam, sandy clay loam	CL, SC	A-6, A-7	0	0	95-100	90-100	75-90	40-60	35-45	15-20
	19-27	stratified sand to sandy loam	SM	A-2	0	0	75-100	75-90	50-65	10-25	---	NP
	27-60	sand, coarse sand	SP, SP-SM	A-1	0	0	85-100	75-90	30-50	0-10	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1370:	In											
Orupa-----	0-6	silty clay loam	CL	A-7	0	0	100	100	80-100	80-100	40-50	20-30
	6-60	clay loam, silty clay, clay	CH, CL	A-7	0	0	100	100	80-100	80-90	40-55	20-30
Playas-----	0-6	silty clay loam	CH, CL, ML, MH	A-7	0	0	100	100	100	90-100	40-55	15-25
	6-60	silty clay loam, clay, silty clay	CH, MH, CL	A-7	0	0	100	100	100	90-100	45-75	20-40
Boofuss-----	0-10	silty clay stratified	CH, CL	A-7	0	0	100	100	90-100	85-95	45-60	25-35
	10-27	silty clay loam to clay	CH, CL	A-7	0	0	100	100	70-95	65-90	40-60	20-35
	27-60	stratified fine sandy loam to silt loam	ML, SM	A-2, A-4	0	0	95-100	90-100	65-85	30-60	15-25	NP-5
1380:												
Hulderman-----	0-5	fine sandy loam	SC-SM	A-4	0	0	100	100	80-90	40-50	20-25	5-10
	5-18	loam	CL	A-6	0	0	100	100	70-80	60-70	30-35	10-15
	18-27	loamy sand	SM	A-4	0	0	100	100	50-60	35-50	---	NP
	27-60	sand, fine sand	SP	A-1	0	0	85-95	80-90	30-50	0-5	---	NP
Toba-----	0-4	loam	CL	A-6	0	0	100	100	70-85	50-70	30-35	10-15
	4-14	clay loam	CL	A-6	0	0	100	100	75-90	60-70	35-40	15-20
	14-23	loamy fine sand	SM	A-2	0	0	90-100	85-100	75-90	20-35	---	NP
	23-60	fine sand, sand	SP-SM	A-3	0	0	90-100	85-100	75-90	5-10	---	NP
Benin-----	0-7	silty clay loam	CL, ML	A-7	0	0	100	100	95-100	85-95	40-50	15-20
	7-60	clay, silty clay	CH, CL, MH	A-7	0	0	100	100	90-100	85-95	45-55	20-25
1390:												
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
Mysol-----	0-5	silty clay loam	CL	A-6, A-7	0	0	100	100	85-95	80-90	35-45	15-20
	5-17	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	17-31	silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	75-95	60-75	30-45	10-20
	31-60	stratified very gravelly coarse sand to fine sandy loam	SM	A-4	0	0-10	75-100	70-100	60-70	35-50	---	NP
Toba-----	0-4	loam	CL	A-6	0	0	100	100	70-85	50-70	30-35	10-15
	4-14	clay loam	CL	A-6	0	0	100	100	75-90	60-70	35-40	15-20
	14-23	loamy fine sand	SM	A-2	0	0	90-100	85-100	75-90	20-35	---	NP
	23-60	fine sand, sand	SP-SM	A-3	0	0	90-100	85-100	75-90	5-10	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
1410: Threesee-----	0-3	gravelly loam	GC-GM, SC-SM	A-4	0	0	65-80	60-75	50-60	35-50	20-30	5-10
	3-14	gravelly loam, gravelly sandy loam	GC-GM, SC-SM	A-4	0	0	65-80	60-75	40-60	35-50	15-25	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
Tosser-----	0-5	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0	35-55	30-50	15-35	10-20	15-25	NP-10
	5-16	very gravelly loamy sand	GM, GP-GM	A-1	0	0	35-55	30-50	15-30	5-15	0-0	NP
	16-26	extremely gravelly sand, extremely gravelly loamy sand	GP	A-1	0	0	20-30	15-25	5-15	0-5	0-0	NP
	26-60	very gravelly loamy sand	GM	A-1	0	0	35-55	30-50	15-35	10-20	0-0	NP
1411: Threesee-----	0-3	very gravelly sandy loam	GC-GM	A-2	0	0	30-55	25-50	20-40	10-20	20-25	5-10
	3-14	gravelly loam	GC-GM, SC-SM	A-2, A-4	0	0	55-80	50-75	40-60	30-50	20-30	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
Linoyer-----	0-9	gravelly fine sandy loam	SM	A-4	0	0	65-75	60-75	50-70	35-50	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-30	NP-10
Okan-----	0-8	sandy loam	SM	A-2	0	0	90-95	85-95	50-60	25-35	15-25	NP-5
	8-38	sandy loam	SM	A-2	0	0-10	90-95	85-95	50-60	25-35	15-25	NP-5
	38-60	stratified extremely gravelly loamy sand	GM, GP-GM	A-1	0	0-15	30-45	25-40	10-30	5-15	---	NP
1412: Threesee-----	0-3	very gravelly sandy loam	GC-GM	A-2	0	0	30-55	25-50	20-40	10-20	20-25	5-10
	3-14	gravelly loam	GC-GM, SC-SM	A-2, A-4	0	0	55-80	50-75	40-60	30-50	20-30	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
Idway-----	0-4	loamy sand	SM, SP-SM	A-1, A-2	0	0	85-100	75-100	15-40	5-30	---	NP
	4-12	sandy loam	SM	A-2, A-4	0	0	90-100	85-100	45-75	25-50	15-25	NP-5
	12-27	loam	ML	A-4	0	0	95-100	90-100	50-80	50-70	15-25	NP-5
	27-60	stratified extremely gravelly coarse sand to fine sand	GP-GM, SM, GM, SP-SM	A-1	0	0	50-80	35-70	15-45	5-25	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Tecomar-----	0-2	extremely gravelly loam	GC	A-2	0	5-30	20-35	15-30	10-25	10-20	25-35	10-15
	2-14	extremely cobblely silt loam, very cobblely silt loam	GC	A-2, A-6	0-15	45-60	35-55	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
1440:												
Boofuss-----	0-10	silty clay	CH, CL	A-7	0	0	100	100	90-100	85-95	45-60	25-35
	10-27	stratified silty clay	CH, CL	A-7	0	0	100	100	70-95	65-90	40-60	20-35
	27-60	loam to clay stratified fine sandy loam to silt loam	ML, SM	A-2, A-4	0	0	95-100	90-100	65-85	30-60	15-25	NP-5
Boofuss-----	0-10	silty clay	CH, CL	A-7	0	0	100	100	90-100	85-95	45-60	25-35
	10-27	stratified silty clay	CH, CL	A-7	0	0	100	100	70-95	65-90	40-60	20-35
	27-60	loam to clay stratified fine sandy loam to silt loam	ML, SM	A-2, A-4	0	0	95-100	90-100	65-85	30-60	15-25	NP-5
Equis-----	0-6	silty clay	MH	A-7	0	0	100	100	95-100	95-100	60-80	20-30
	6-24	silty clay, clay	MH	A-7	0	0	100	100	95-100	95-100	60-80	20-30
	24-41	silty clay, silty clay loam	MH	A-7	0	0	100	100	95-100	95-100	50-70	15-25
	41-60	silty clay loam, silty clay, silt loam	MH, ML	A-6, A-7	0	0	100	95-100	90-100	85-95	35-70	10-25
1441:												
Boofuss-----	0-10	silty clay	CH, CL	A-7	0	0	100	100	90-100	85-95	45-60	25-35
	10-27	stratified silty clay	CH, CL	A-7	0	0	100	100	70-95	65-90	40-60	20-35
	27-60	loam to clay stratified fine sandy loam to silt loam	ML, SM	A-2, A-4	0	0	95-100	90-100	65-85	30-60	15-25	NP-5
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
Umberland-----	0-15	silty clay	CL, MH, CH, ML	A-7	0	0	100	100	95-100	85-95	45-55	20-25
	15-60	silty clay, silty clay loam, clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	20-30

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1450: Pilt-down-----	0-10	fine sandy loam	SM	A-4	0	0	95-100	95-100	70-80	35-50	20-25	NP-5
	10-60	fine sandy loam, sandy loam, very fine sandy loam	SM	A-2, A-4	0	0	75-100	75-100	50-90	30-50	20-25	NP-5
Kawich-----	0-2	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
	2-60	fine sand	SM	A-2	0	0	100	100	75-90	20-30	---	NP
1460: Tosser-----	0-10	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0	35-55	30-50	15-35	10-20	15-25	NP-10
	10-16	very gravelly loamy sand	GM, GP-GM	A-1	0	0	35-55	30-50	15-30	5-15	0-0	NP
	16-26	extremely gravelly sand, extremely gravelly loamy sand	GP	A-1	0	0	20-30	15-25	5-15	0-5	0-0	NP
	26-60	very gravelly loamy sand	GM	A-1	0	0	35-55	30-50	15-35	10-20	0-0	NP
Threese-----	0-3	gravelly loam	GC-GM, SC-SM	A-4	0	0	65-80	60-75	50-60	35-50	20-30	5-10
	3-14	gravelly loam, gravelly sandy loam	GC-GM, SC-SM	A-4	0	0	65-80	60-75	40-60	35-50	15-25	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
1471: Timpie-----	0-8	silt loam	CL-ML	A-4	0	0	100	100	95-100	65-95	25-30	5-10
	8-19	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
	19-60	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
Kunzler-----	0-5	silt loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
	5-48	fine sandy loam, sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	85-100	45-80	25-50	20-30	NP-10
	48-60	loam	CL-ML, ML	A-4	0	0	90-100	85-100	65-95	50-75	20-30	NP-10
Threese-----	0-3	very gravelly sandy loam	GC-GM	A-2	0	0	30-55	25-50	20-40	10-20	20-25	5-10
	3-14	gravelly loam	GC-GM, SC-SM	A-2, A-4	0	0	55-80	50-75	40-60	30-50	20-30	5-10
	14-46	very gravelly loamy sand	GM	A-1	0	0	45-60	30-50	20-35	10-25	---	NP
	46-60	stratified very gravelly coarse sand	SM, SP-SM	A-1	0	0	55-70	45-60	15-25	5-15	---	NP
1480: Tulase-----	0-2	silt loam	CL-ML, ML	A-4	0	0	100	100	100	90-100	15-25	NP-10
	2-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	95-100	90-100	85-100	70-85	15-25	NP-10
Linoyer-----	0-9	silt loam	CL-ML, ML	A-4	0	0	100	100	85-100	70-90	15-25	NP-10
	9-60	very fine sandy loam, silt loam	CL-ML, ML	A-4	0	0	100	100	95-100	80-95	15-25	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1500: Tooele-----	0-5	sandy loam	SM	A-2	0	0	90-100	85-100	50-70	15-35	15-25	NP-5
	5-44	fine sandy loam	SM	A-2	0	0	90-100	85-100	60-80	15-35	15-25	NP-5
	44-61	stratified sandy loam to silt loam	ML, SM	A-4	0	0	90-100	85-100	45-75	35-60	15-25	NP-5
Loray-----	0-12	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	60-80	55-75	45-60	20-30	20-25	NP-5
	12-60	stratified extremely gravelly coarse sand to extremely gravelly loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP
1510: Izamatch-----	0-3	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	55-80	50-75	30-50	15-30	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GM, GP, SP- SM, GP-GM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP
Cliffdown-----	0-6	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0-5	35-55	30-50	15-35	10-20	15-25	NP-10
	6-60	very gravelly sandy loam	GC-GM, GM	A-1, A-2	0	0-5	35-55	30-50	15-35	10-20	15-25	NP-10
1520: Izamatch-----	0-3	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	55-80	50-75	30-50	15-30	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GP-GM, GM, SP-SM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
	In											
Izamatc-----	0-3	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	55-80	50-75	30-50	15-30	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GM, SP-SM, GP, GP-GM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP
Luning-----	0-3	loamy sand	SM	A-2	0	0	100	90-100	70-85	20-35	---	NP
	3-60	stratified very gravelly coarse sand to sandy loam	SM	A-1, A-2	0-10	0	75-95	55-90	45-80	10-30	---	NP
1521: Izamatc-----	0-3	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	55-80	50-75	30-50	15-30	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GM, GP-GM, SP-SM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP
Izamatc-----	0-3	gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	55-80	50-75	30-50	15-30	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GP-GM, GM, SP-SM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Antoft-----	0-2	very gravelly loam	GC, GC-GM	A-2	0	0	30-55	25-50	20-45	15-35	25-35	5-15
	2-12	very gravelly loam, extremely gravelly loam	GC, GC-GM	A-2	0	0	25-55	20-50	15-45	10-35	20-35	5-15
	12-16	unweathered bedrock			---	---	---	---	---	---	---	---
Jericho-----	0-4	very gravelly loam	GC-GM	A-2	0	0	45-60	35-50	25-40	20-35	25-30	5-10
	4-14	very gravelly sandy loam	GM	A-1	0	0-10	40-60	30-50	20-40	10-25	20-25	NP-5
	14-28	indurated			---	---	---	---	---	---	---	---
	28-60	extremely gravelly loamy coarse sand	GP-GM	A-1	0	0	25-35	15-25	10-20	5-10	0-14	NP
1550: Jericho-----	0-4	very gravelly loam	GC-GM	A-2	0	0	45-60	35-50	25-40	20-35	25-30	5-10
	4-14	very gravelly sandy loam	GM	A-1	0	0-10	40-60	30-50	20-40	10-25	20-25	NP-5
	14-28	indurated			---	---	---	---	---	---	---	---
	28-60	extremely gravelly loamy coarse sand	GP-GM	A-1	0	0	25-35	15-25	10-20	5-10	0-14	NP
Jericho-----	0-4	very gravelly loam	GC-GM	A-2	0	0	45-60	35-50	25-40	20-35	25-30	5-10
	4-14	very gravelly sandy loam	GM	A-1	0	0-10	40-60	30-50	20-40	10-25	20-25	NP-5
	14-28	indurated			---	---	---	---	---	---	---	---
	28-60	extremely gravelly loamy coarse sand	GP-GM	A-1	0	0	25-35	15-25	10-20	5-10	0-14	NP
1560: Toano-----	0-9	very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	85-100	60-80	30-50	NP-5
	9-27	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
	27-60	silt loam, very fine sandy loam	ML	A-4, A-5	0	0	100	95-100	95-100	70-95	30-50	NP-5
Timpie-----	0-8	very fine sandy loam	ML	A-4	0	0	100	100	95-100	60-80	15-25	NP-5
	8-19	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
	19-60	silt loam	CL-ML	A-4	0	0	100	100	95-100	80-95	25-30	5-10
1570: Jericho-----	0-4	very gravelly loam	GC-GM	A-2	0	0	45-60	35-50	25-40	20-35	25-30	5-10
	4-14	very gravelly sandy loam	GM	A-1	0	0-10	40-60	30-50	20-40	10-25	20-25	NP-5
	14-28	indurated			---	---	---	---	---	---	---	---
	28-60	extremely gravelly loamy coarse sand	GP-GM	A-1	0	0	25-35	15-25	10-20	5-10	0-14	NP
Xeric Torriorthents--	0-5	gravelly sandy loam	GM, SM	A-1, A-2	0	0	55-80	50-75	30-50	15-30	15-25	NP-5
	5-60	stratified very gravelly coarse sand to extremely gravelly coarse sand	GP, GM, GP-GM	A-1	0	0-10	15-50	10-45	5-25	0-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
1580: Armespan-----	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GP-GM, SM, GM, SP-SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP
Jericho-----	0-4	very gravelly loam	GC-GM	A-2	0	0	45-60	35-50	25-40	20-35	25-30	5-10
	4-14	very gravelly sandy loam	GM	A-1	0	0-10	40-60	30-50	20-40	10-25	20-25	NP-5
	14-28	indurated			---	---	---	---	---	---	---	---
	28-60	extremely gravelly loamy coarse sand	GP-GM	A-1	0	0	25-35	15-25	10-20	5-10	0-14	NP
1581: Armespan-----	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GP-GM, SM, GM, SP-SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP
Kyler-----	0-3	very gravelly loam	GC-GM, GM	A-1, A-2	0	0	30-55	25-50	20-40	15-30	15-25	NP-10
	3-7	very gravelly loam	GC-GM, GM	A-1, A-2, A-4	0	15-25	40-65	35-60	30-50	20-40	15-25	NP-10
	7-11	unweathered bedrock			---	---	---	---	---	---	---	---
Heist-----	0-4	fine sandy loam	SM	A-2, A-4	0	0	85-100	75-100	60-80	25-50	15-25	NP-5
	4-40	fine sandy loam, sandy loam	SM	A-2, A-4	0	0	80-100	75-100	50-80	25-50	15-25	NP-5
	40-60	gravelly fine sandy loam, gravelly sandy loam	GM, SM	A-1, A-2, A-4	0	0	55-80	50-75	35-60	15-40	15-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1582: Armespan-----	In											
	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GM, GP-GM, SP-SM, SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP
Xeric Torriorthents--	0-5	gravelly sandy loam	GM, SM	A-1, A-2	0	0	55-80	50-75	30-50	15-30	15-25	NP-5
	5-60	stratified very gravelly extremely gravelly coarse sand	GM, GP, GP-GM	A-1	0	0-10	15-50	10-45	5-25	0-15	---	NP
1590: Luning-----	0-3	gravelly sandy loam	GM, SM	A-1, A-2	0-5	0-5	55-80	50-75	40-50	20-35	15-25	NP-5
	3-60	stratified very gravelly coarse sand to sandy loam	SM	A-1, A-2	0-10	0	75-95	55-90	45-80	10-30	---	NP
Luning-----	0-3	gravelly loamy sand	GM, SM	A-1, A-2	0-5	0-5	55-80	50-75	40-50	20-35	---	NP
	3-60	stratified very gravelly coarse sand to sandy loam	SM	A-1, A-2	0-10	0	75-95	55-90	45-80	10-30	---	NP
Loray-----	0-12	gravelly loam	GC-GM, GM, SM, SC-SM	A-2, A-4	0	0	55-80	50-75	40-70	30-50	20-30	NP-10
	12-60	stratified extremely gravelly coarse sand to extremely gravelly loamy fine sand	GP, GP-GM	A-1	0	0-15	20-35	10-25	5-20	0-10	---	NP
1591: Luning-----	0-3	sandy loam	SM	A-2, A-4	0	0	95-100	90-100	65-80	30-40	15-25	NP-5
	3-60	stratified very gravelly coarse sand to sandy loam	SM	A-1, A-2	0-10	0	75-95	55-90	45-80	10-30	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct						
Izamatc-----	0-3	very gravelly sandy loam	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-35	5-20	15-25	NP-5
	3-13	gravelly sandy loam, very gravelly sandy loam	GM, SM	A-1, A-2	0	0-5	40-80	35-75	25-50	20-35	15-25	NP-5
	13-22	very gravelly loamy sand, very gravelly sand, very gravelly loamy coarse sand	GM, GP-GM	A-1	0	0-5	30-55	25-50	15-30	5-15	---	NP
	22-60	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GM, GP- GM, SP-SM	A-1	0	0-5	20-60	15-55	5-35	0-15	---	NP
Badland-----	0-6	variable	CH, CL, ML, MH	A-7	0	0	100	100	100	90-100	45-75	20-35
	6-60	silty clay loam, clay, silty clay	CL, CH, MH, ML	A-7	0	0	100	100	100	90-100	45-75	20-35
1600: Eaglepass-----	0-1	very gravelly sandy loam	GM, GP-GM	A-1	0	0-5	35-55	25-45	15-35	5-25	15-25	NP-5
	1-5	extremely gravelly sandy loam	GM, GP-GM	A-1	0	0-5	30-40	20-25	10-20	5-15	15-25	NP-5
	5-9	unweathered bedrock			---	---	---	---	---	---	---	---
Antoft-----	0-4	very gravelly loam	GC, GC-GM	A-2	0	0	30-55	25-50	20-45	15-35	25-35	5-15
	4-15	very gravelly loam, extremely gravelly loam	GC, GC-GM	A-2	0	0	25-55	20-50	15-45	10-35	20-35	5-15
	15-25	unweathered bedrock			---	---	---	---	---	---	---	---
1610: Xeric Torriorthents--	0-5	gravelly sandy loam	GM, SM	A-1, A-2	0	0	55-80	50-75	30-50	15-30	15-25	NP-5
	5-60	stratified very gravelly extremely gravelly coarse sand	GM, GP, GP-GM	A-1	0	0-10	15-50	10-45	5-25	0-15	---	NP
Armespan-----	0-7	very gravelly sandy loam	GM	A-1	0	0-10	45-60	30-50	20-40	10-25	20-25	NP-5
	7-21	gravelly sandy loam, gravelly loam	GM, SM	A-2, A-4	0	0-10	55-85	50-75	35-60	25-45	20-25	NP-5
	21-32	very gravelly sandy loam, very gravelly coarse sandy loam	GM	A-1	0	0-10	40-60	35-50	20-40	10-25	20-25	NP-5
	32-60	very gravelly loamy coarse sand, very gravelly loamy sand	GM, GP-GM, SP-SM, SM	A-1	0	0-10	30-60	25-50	10-35	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Rock Outcrop----	In											
1631: Pookaloo-----	0-2	very gravelly loam	GM	A-2	0	0-5	50-60	35-50	30-40	25-35	20-25	NP-5
	2-14	very gravelly loam, very gravelly silt loam	GM	A-2, A-4	0	0	50-60	35-50	35-45	25-40	20-25	NP-5
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Tecomar-----	0-2	extremely gravelly loam	GC	A-2	0	5-30	20-35	15-30	10-25	10-20	25-35	10-15
	2-14	extremely cobbly silt loam, very cobbly silt loam	GC	A-2, A-6	0-15	45-60	35-55	20-45	15-40	10-40	25-35	10-15
	14-18	unweathered bedrock			---	---	---	---	---	---	---	---
Wardbay-----	0-14	very gravelly loam	GC-GM, GM	A-2	0	0-15	35-60	25-50	20-40	15-35	25-35	5-10
	14-55	extremely cobbly silt loam, extremely gravelly silt loam	GC-GM, GM	A-2	0-5	40-55	20-50	10-40	10-35	10-30	25-35	5-10
	55-59	unweathered bedrock			---	---	---	---	---	---	---	---
1640: Jungo-----	0-3	very gravelly loam	GC-GM	A-2	0	0-10	40-55	35-50	25-45	20-35	25-30	5-10
	3-20	very gravelly sandy clay loam, very gravelly clay loam	GC	A-2	0-10	0-10	30-55	25-50	20-40	15-35	35-40	15-20
	20-60	extremely gravelly clay loam, extremely gravelly sandy clay loam	GC, GP-GC	A-2	0-10	10-25	15-40	10-30	10-30	5-25	35-40	15-20
Jungo-----	0-3	very gravelly loam	GC-GM	A-2	0	0-10	40-55	35-50	25-45	20-35	25-30	5-10
	3-20	very gravelly sandy clay loam, very gravelly clay loam	GC	A-2	0-10	0-10	30-55	25-50	20-40	15-35	35-40	15-20
	20-60	extremely gravelly clay loam, extremely gravelly sandy clay loam	GC, GP-GC	A-2	0-10	10-25	15-40	10-30	10-30	5-25	35-40	15-20

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
1650: Shantown-----	0-2	gravelly loamy sand	SM	A-1, A-2	0	0	75-90	60-75	20-45	10-35	---	NP
	2-11	coarse sandy loam, sandy loam	SM	A-1, A-4, A-2	0	0	85-100	75-90	20-50	10-40	---	NP
	11-33	coarse sandy loam, gravelly sandy loam, sandy loam	SM	A-1, A-2	0	0	75-100	55-85	30-50	15-30	15-20	NP-5
	33-49	gravelly loamy sand, gravelly sand, loamy coarse sand	SM, SP-SM	A-1, A-2	0	0	75-100	55-90	15-40	5-30	---	NP
	49-60	very gravelly coarse sand, extremely gravelly coarse sand	GP, GP-GM, GM, SP-SM	A-1	0	0	40-65	10-35	5-30	0-15	---	NP
Zorrvista-----	0-6	loamy fine sand	SM	A-2	0	0	100	100	75-90	10-35	---	NP
	6-60	fine sand, sand	SM, SP-SM	A-2, A-3	0	0	100	100	65-80	5-30	---	NP
1651: Shantown-----	0-2	gravelly loamy sand	SM	A-1, A-2	0	0	75-90	60-75	20-45	10-35	---	NP
	2-11	coarse sandy loam, sandy loam	SM	A-1, A-4, A-2	0	0	85-100	75-90	20-50	10-40	---	NP
	11-33	coarse sandy loam, gravelly sandy loam, sandy loam	SM	A-1, A-2	0	0	75-100	55-85	30-50	15-30	15-20	NP-5
	33-49	gravelly loamy sand, gravelly sand, loamy coarse sand	SM, SP-SM	A-1, A-2	0	0	75-100	55-90	15-40	5-30	---	NP
	49-60	very gravelly coarse sand, extremely gravelly coarse sand	GP, GP-GM, GM, SP-SM	A-1	0	0	40-65	10-35	5-30	0-15	---	NP
Shantown-----	0-2	gravelly loamy sand	SM	A-1, A-2	0	0	75-90	60-75	20-45	10-35	---	NP
	2-11	coarse sandy loam, sandy loam	SM	A-1, A-4, A-2	0	0	85-100	75-90	20-50	10-40	---	NP
	11-33	coarse sandy loam, gravelly sandy loam, sandy loam	SM	A-1, A-2	0	0	75-100	55-85	30-50	15-30	15-20	NP-5
	33-49	gravelly loamy sand, gravelly sand, loamy coarse sand	SM, SP-SM	A-1, A-2	0	0	75-100	55-90	15-40	5-30	---	NP
	49-60	very gravelly coarse sand, extremely gravelly coarse sand	GM, GP, SP- SM, GP-GM	A-1	0	0	40-65	10-35	5-30	0-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1660: Wendane-----	In											
	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-95	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
Logan-----	0-10	silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	85-95	25-35	5-15
	10-40	silt loam, silty clay loam	CL, ML	A-7	0	0	100	100	95-100	85-95	40-50	15-20
	40-60	silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	95-100	90-95	45-55	20-30
1670: Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
Logan-----	0-10	silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	85-95	25-35	5-15
	10-40	silt loam, silty clay loam	CL, ML	A-7	0	0	100	100	95-100	85-95	40-50	15-20
	40-60	silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	95-100	90-95	45-55	20-30
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-95	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
1680: Rubylake-----	0-7	clay loam	CL	A-6	0	0	100	100	85-95	80-90	35-40	15-20
	7-23	silt loam	ML	A-4	0	0	100	100	95-100	85-90	30-40	5-10
	23-55	silt loam	ML	A-4	0	0	100	100	95-100	85-90	30-40	5-10
	55-60	silt loam, silty clay loam	CL, ML	A-6, A-7	0	0	100	100	90-100	80-85	35-45	10-20
Kolda-----	0-6	silt loam	CL-ML	A-4	0	0	100	100	80-90	60-80	20-30	5-10
	6-15	silt loam	CL	A-6	0	0	100	100	80-90	60-80	30-35	10-15
	15-36	silty clay	CL	A-7	0	0	100	100	90-100	85-95	40-45	15-20
	36-60	clay	CH, CL	A-7	0	0	100	100	90-100	85-95	45-65	20-35
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
1681: Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
Logan-----	0-10	silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	85-95	25-35	5-15
	10-40	silt loam, silty clay loam	CL, ML	A-7	0	0	100	100	95-100	85-95	40-50	15-20
	40-60	silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	95-100	90-95	45-55	20-30
Umberland-----	0-15	silt loam	ML	A-4	0	0	100	100	95-100	60-80	25-35	NP-10
	15-60	silty clay, silty clay loam, clay	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	20-30
1690: Krenka-----	0-17	loam	SC-SM	A-4	0	0	80-90	75-85	50-60	40-50	20-25	5-10
	17-31	gravelly sandy clay loam, very gravelly sandy clay loam	GC	A-2	0	0-10	45-65	40-60	30-40	20-35	25-35	10-15
	31-60	extremely cobble sandy clay loam, very cobbly sandy clay loam	GC	A-2	0-15	15-30	35-55	30-50	20-35	15-25	25-35	10-15
Secrepass-----	0-7	gravelly loam	GC-GM, SC-SM	A-4	0	0	55-80	50-75	40-65	35-50	20-25	5-10
	7-14	gravelly clay loam, very gravelly clay loam	GC	A-2, A-7, A-6	0	0-10	50-65	45-60	35-50	25-40	30-45	10-20
	14-31	very gravelly clay, very cobble clay	GC	A-2, A-7	0	10-25	40-60	35-55	30-50	25-45	45-65	25-35
	31-60	extremely gravelly sandy loam	GC-GM	A-2	0-10	10-25	40-50	35-45	25-35	10-25	20-25	5-10
1700: Heechee-----	0-7	cobbly loam	CL, SC-SM, CL-ML, SC	A-4, A-6	0-10	15-25	80-95	70-80	60-75	45-60	25-35	5-15
	7-20	very cobbly clay loam, very gravelly sandy clay loam, very cobble loam	GC	A-2, A-6	0-15	25-50	45-75	35-65	30-60	25-50	30-40	10-20
	20-60	extremely cobble sandy loam, extremely cobble coarse sandy loam, extremely cobble loam	GM, GP-GC, GC-GM, GP-GM	A-1, A-2	0-10	45-55	30-60	20-50	10-35	5-20	20-30	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Rubicity-----	0-3	gravelly sandy loam	SM	A-2, A-4	0	0	65-90	50-75	40-60	25-45	20-25	NP-5
	3-42	stratified gravelly sandy loam to very gravelly sandy loam	SM	A-2, A-4	0	0	65-90	50-75	40-60	25-45	20-25	NP-5
	42-60	sandy loam, gravelly sandy loam	SM	A-4	0	0	75-95	60-85	50-70	35-50	20-25	NP-5
Heechee-----	0-7	extremely stony sandy loam	GC-GM	A-2	25-40	10-15	50-65	40-55	30-45	15-30	20-30	5-10
	7-30	very gravelly sandy clay loam, very cobbly clay loam, very cobbly loam	GC	A-2, A-6	0-15	15-50	45-75	35-65	30-60	25-50	30-40	10-20
	30-60	extremely cobbly coarse sandy loam, extremely cobbly sandy loam	GM, GC-GM, GP-GC, GP-GM	A-1, A-2	0-10	45-55	30-60	20-50	10-35	5-20	20-30	NP-10
1702: Heechee-----	0-7	cobbly loam	CL-ML, CL, SC, SC-SM	A-4, A-6	0-10	15-25	80-95	70-80	60-75	45-60	25-35	5-15
	7-20	very cobbly clay loam, very gravelly sandy clay loam, very cobbly loam	GC	A-2, A-6	0-15	25-50	45-75	35-65	30-60	25-50	30-40	10-20
	20-60	extremely cobbly sandy loam, extremely cobbly coarse sandy loam, extremely cobbly loam	GC-GM, GM, GP-GM, GP-GC	A-1, A-2	0-10	45-55	30-60	20-50	10-35	5-20	20-30	NP-10
McIvey-----	0-12	very cobbly loam	GC	A-6	0	25-50	50-70	45-65	40-60	35-50	30-40	10-15
	12-18	very gravelly clay loam, gravelly clay loam	CL, GC, SC	A-7	0	0-10	55-85	45-75	40-70	35-60	40-45	20-25
	18-60	very gravelly clay, very cobbly clay, extremely cobbly clay	GC	A-2, A-7	0-25	10-55	45-60	35-50	35-45	30-45	45-55	30-35
Rubicity-----	0-3	gravelly sandy loam	SM	A-2, A-4	0	0	65-90	50-75	40-60	25-45	20-25	NP-5
	3-42	stratified gravelly very gravelly sandy loam	SM	A-2, A-4	0	0	65-90	50-75	40-60	25-45	20-25	NP-5
	42-60	sandy loam, gravelly sandy loam	SM	A-4	0	0	75-95	60-85	50-70	35-50	20-25	NP-5

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1710: James Canyon----	0-8	fine sandy loam	SC-SM	A-4	0	0	100	100	75-90	35-50	20-25	5-10
	8-33	stratified gravelly loam to silt loam	GC, SC	A-2, A-6	0	0	60-85	50-75	40-60	25-40	25-35	10-15
	33-60	fine sandy loam	SC-SM	A-2, A-4	0	0	95-100	90-100	75-85	30-50	20-25	5-10
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
1711: James Canyon----	0-8	fine sandy loam	SC-SM	A-4	0	0	100	100	75-90	35-50	20-25	5-10
	8-33	stratified gravelly loam to silt loam	GC, SC	A-2, A-6	0	0	60-85	50-75	40-60	25-40	25-35	10-15
	33-60	fine sandy loam	SC-SM	A-2, A-4	0	0	95-100	90-100	75-85	30-50	20-25	5-10
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-85	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-95	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
1720: Welch-----	0-8	loam	CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	8-60	stratified sandy loam to silty clay loam	CL	A-6	0	0	80-100	75-100	65-90	50-70	30-40	10-20
1721: Welch-----	0-8	loam	CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	8-60	stratified sandy loam to silty clay loam	CL	A-6	0	0	80-100	75-100	65-90	50-70	30-40	10-20
Welsum-----	0-11	silt loam	CL	A-6	0	0	100	100	90-100	60-75	30-35	10-15
	11-25	clay loam, silty clay loam	CL	A-6	0	0-10	95-100	85-100	80-95	75-85	35-40	15-20
	25-60	extremely cobble loamy sand, very cobble sand, extremely gravelly sand	GP-GM, GM, SM, SP-SM	A-1	0-15	10-45	30-70	25-65	15-40	5-15	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1722: Welch-----	In											
	0-5	loam	CL, CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	5-41	stratified sandy loam to silty clay loam	CL	A-6	0	0	80-100	75-100	65-90	50-70	30-40	10-20
	41-61	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GP-GM	A-1	0	0-10	20-50	15-50	10-35	0-10	---	NP
Slipback-----	0-12	sandy loam	SC-SM	A-4	0	0	85-95	75-90	50-65	35-50	20-25	5-10
	12-39	gravelly sandy clay loam	SC	A-2	0	0	65-85	55-75	40-50	20-35	35-40	15-20
	39-55	gravelly sandy loam	SC-SM	A-2	0	0	70-85	60-75	40-50	20-30	20-25	5-10
	55-60	very gravelly loamy coarse sand	GM, SM	A-1	0	0	35-65	25-50	15-35	10-15	---	NP
Welch-----	0-5	loam	CL, CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	5-41	stratified sandy loam to silty clay loam	CL	A-6	0	0	80-100	75-100	65-90	50-70	30-40	10-20
	41-61	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GP-GM	A-1	0	0-10	20-50	15-50	10-35	0-10	---	NP
1723: Welch-----	0-8	loam	CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	8-60	stratified sandy loam to silty clay loam	CL	A-6	0	0	80-100	75-100	65-90	50-70	30-40	10-20
Welch-----	0-8	loam	CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	8-60	stratified sandy loam to silty clay loam	CL	A-6, A-7	0	0	80-100	75-100	65-90	50-70	35-45	15-20
1730: McIvey-----	0-12	very cobbly loam	GC	A-6	0	25-50	50-70	45-65	40-60	35-50	30-40	10-15
	12-18	very gravelly clay loam, gravelly clay loam	CL, SC, GC	A-7	0	0-10	55-85	45-75	40-70	35-60	40-45	20-25
	18-60	very gravelly clay, very cobbly clay, extremely cobbly clay	GC	A-2, A-7	0-25	10-55	45-60	35-50	35-45	30-45	45-55	30-35
Donna-----	0-7	gravelly loam	CL	A-6	0	0	65-75	60-75	55-70	50-60	30-40	10-20
	7-33	clay	CH	A-7	0	0	80-90	75-85	75-80	70-80	60-70	30-40
	33-43	indurated			---	---	---	---	---	---	---	---
	43-60	stratified extremely gravelly sandy loam to gravelly sandy clay loam	GC	A-2	0-5	10-35	40-55	30-40	20-30	10-20	30-40	10-20

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1731: McIvey-----	0-12	very cobbly loam	GC	A-6	0	25-50	50-70	45-65	40-60	35-50	30-40	10-15
	12-18	very gravelly clay loam, gravelly clay loam	CL, SC, GC	A-7	0	0-10	55-85	45-75	40-70	35-60	40-45	20-25
	18-60	very gravelly clay, very cobbly clay, extremely cobbly clay	GC	A-2, A-7	0-25	10-55	45-60	35-50	35-45	30-45	45-55	30-35
Chen-----	0-3	very gravelly loam	GC	A-2	0	0-15	50-65	35-50	30-45	25-35	30-35	10-15
	3-16	very gravelly clay, extremely gravelly clay, very cobbly clay	GC	A-2, A-7	0-5	0-45	35-50	25-45	25-45	20-40	50-60	25-35
	16-20	unweathered bedrock			---	---	---	---	---	---	---	---
Donna-----	0-7	silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	75-95	50-75	25-35	5-15
	7-33	clay	CH	A-7	0	0	80-90	75-85	75-80	70-80	60-70	30-40
	33-43	indurated			---	---	---	---	---	---	---	---
	43-60	stratified extremely gravelly sandy loam to gravelly sandy clay loam	GC	A-2	0-5	10-35	40-55	30-40	20-30	10-20	30-40	10-20
1732: McIvey-----	0-12	gravelly loam	GC, SC	A-6	0	0-10	60-85	50-75	45-70	35-50	30-40	10-15
	12-18	very gravelly clay loam, gravelly clay loam	CL, GC, SC	A-7	0	0-10	55-85	45-75	40-70	35-55	40-45	15-20
	18-60	very gravelly clay, very cobbly clay, extremely cobbly clay	GC	A-2, A-7	0	0-55	45-60	35-50	35-45	30-45	45-55	20-30
Stampede-----	0-11	gravelly loam	CL	A-6	0	0	70-80	65-75	60-70	50-65	25-35	10-15
	11-35	clay, silty clay	CH	A-7	0	0-10	90-100	85-95	80-90	70-85	50-60	30-40
	35-45	indurated			---	---	---	---	---	---	---	---
Heechee-----	0-7	cobbly loam	CL-ML, SC, CL, SC-SM	A-4, A-6	0-10	15-25	80-95	70-80	60-75	45-60	25-35	5-15
	7-20	very cobbly clay loam, very gravelly sandy clay loam, very cobbly loam	GC	A-2, A-6	0-15	25-50	45-75	35-65	30-60	25-50	30-40	10-20
	20-60	extremely cobbly sandy loam, extremely cobbly coarse sandy loam, extremely cobbly loam	GM, GC-GM, GP-GC, GP-GM	A-1, A-2	0-10	45-55	30-60	20-50	10-35	5-20	20-30	NP-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1740: Slipback-----	0-12	sandy loam	SC-SM	A-4	0	0	85-95	75-90	50-65	35-50	20-25	5-10
	12-39	gravelly sandy clay loam	SC	A-2	0	0	65-85	55-75	40-50	20-35	35-40	15-20
	39-55	gravelly sandy loam	SC-SM	A-2	0	0	70-85	60-75	40-50	20-30	20-25	5-10
	55-60	very gravelly loamy coarse sand	GM, SM	A-1	0	0	35-65	25-50	15-35	10-15	---	NP
Welch-----	0-5	loam	CL, CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	5-41	stratified sandy loam to silty clay loam	CL	A-6	0	0	80-100	75-100	65-90	50-70	30-40	10-20
	41-61	stratified extremely gravelly coarse sand to very gravelly loamy sand	GP, GP-GM	A-1	0	0-10	20-50	15-50	10-35	0-10	---	NP
1741: Slipback-----	0-12	sandy loam	SC-SM	A-4	0	0	85-95	75-90	50-65	35-50	20-25	5-10
	12-39	gravelly sandy clay loam	SC	A-2	0	0	65-85	55-75	40-50	20-35	35-40	15-20
	39-55	gravelly sandy loam	SC-SM	A-2	0	0	70-85	60-75	40-50	20-30	20-25	5-10
	55-60	very gravelly loamy coarse sand	GM, SM	A-1	0	0	35-65	25-50	15-35	10-15	---	NP
Shantown-----	0-2	gravelly loamy sand	SM	A-1, A-2	0	0	75-90	60-75	20-45	10-35	---	NP
	2-11	coarse sandy loam, sandy loam	SM	A-1, A-2, A-4	0	0	85-100	75-90	20-50	10-40	---	NP
	11-33	coarse sandy loam, gravelly sandy loam, sandy loam	SM	A-1, A-2	0	0	75-100	55-85	30-50	15-30	15-20	NP-5
	33-49	gravelly loamy sand, gravelly sand, loamy coarse sand	SM, SP-SM	A-1, A-2	0	0	75-100	55-90	15-40	5-30	---	NP
	49-60	very gravelly coarse sand, extremely gravelly coarse sand	GM, GP, SP- SM, GP-GM	A-1	0	0	40-65	10-35	5-30	0-15	---	NP
Toba-----	0-4	loam	CL	A-6	0	0	100	100	70-85	50-70	30-35	10-15
	4-14	clay loam	CL	A-6	0	0	100	100	75-90	60-70	35-40	15-20
	14-23	loamy fine sand	SM	A-2	0	0	90-100	85-100	75-90	20-35	---	NP
	23-60	fine sand, sand	SP-SM	A-3	0	0	90-100	85-100	75-90	5-10	---	NP

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
1750: Heechee-----	0-7	gravelly loam	CL-ML, SC, CL, SC-SM	A-4, A-6	0	0-5	75-85	55-75	40-60	40-55	25-35	5-15
	7-20	very cobbly clay loam, very gravelly sandy clay loam, very cobbly loam	GC	A-2, A-6	0-15	15-50	45-75	35-65	30-60	25-50	30-40	10-20
	20-60	extremely cobbly sandy loam, extremely coarse sandy loam	GM, GC-GM, GP-GC, GP-GM	A-1, A-2	0-10	45-55	30-60	20-50	10-35	5-20	20-30	NP-10
Welch-----	0-8	loam	CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	8-60	stratified sandy loam to silty clay loam	CL	A-6	0	0	80-100	75-100	65-90	50-70	30-40	10-20
Welch-----	0-8	loam	CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	8-60	stratified sandy loam to silty clay loam	CL	A-6, A-7	0	0	80-100	75-100	65-90	50-70	35-45	15-20
1760: Lykal-----	0-12	silt loam	ML	A-4	0	0	100	100	85-95	75-85	25-30	NP-5
	12-41	silt loam	ML	A-4	0	0	100	100	90-100	75-85	25-30	NP-5
	41-51	silt loam, loam	ML	A-4	0	0	95-100	90-100	75-85	65-75	25-30	NP-5
	51-60	stratified gravelly sandy loam to gravelly clay loam	GM	A-4	0	0	60-75	55-70	50-60	40-50	30-35	5-10
Wendane-----	0-8	silt loam	ML	A-4	0	0	100	100	90-100	70-95	30-40	NP-10
	8-42	silt loam, very fine sandy loam	ML	A-4	0	0	100	100	95-100	70-80	30-40	NP-10
	42-60	stratified silt loam to clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	35-45	10-20
James Canyon----	0-8	fine sandy loam	SC-SM	A-4	0	0	100	100	75-90	35-50	20-25	5-10
	8-33	stratified gravelly loam to silt loam	GC, SC	A-2, A-6	0	0	60-85	50-75	40-60	25-40	25-35	10-15
	33-60	fine sandy loam	SC-SM	A-2, A-4	0	0	95-100	90-100	75-85	30-50	20-25	5-10
1770: Donna-----	0-7	gravelly loam	CL	A-6	0	0	65-75	60-75	55-70	50-60	30-40	10-20
	7-33	clay	CH	A-7	0	0	80-90	75-85	75-80	70-80	60-70	30-40
	33-43	indurated			---	---	---	---	---	---	---	---
	43-60	stratified extremely gravelly sandy loam to gravelly sandy clay loam	GC	A-2	0-5	10-35	40-55	30-40	20-30	10-20	30-40	10-20

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
McIvey-----	0-12	very cobbly loam	GC	A-6	0	25-50	50-70	45-65	40-60	35-50	30-40	10-15
	12-18	very gravelly clay loam, gravelly clay loam	GC, CL, SC	A-7	0	0-10	55-85	45-75	40-70	35-60	40-45	20-25
	18-60	very gravelly clay, very cobbly clay, extremely cobbly clay	GC	A-2, A-7	0-25	10-55	45-60	35-50	35-45	30-45	45-55	30-35
Heechee-----	0-7	very stony loam	GC-GM, GC, SC, SC-SM	A-2	10-25	5-15	55-70	45-60	35-50	25-35	25-35	5-15
	7-30	very gravelly sandy clay loam, very cobbly clay loam, very cobbly loam	GC	A-2, A-6	0-15	15-50	45-75	35-65	30-60	25-50	30-40	10-20
	30-60	extremely cobbly coarse sandy loam, extremely cobbly sandy loam	GC-GM, GP-GM, GM, GP-GC	A-1, A-2	0-10	45-55	30-60	20-50	10-35	5-20	20-30	NP-10
1780: Schoer-----	0-3	loam	CL	A-6	0	0	80-95	75-90	60-75	50-60	30-35	10-15
	3-16	clay loam, sandy clay loam, clay loam	CL, SC	A-7	0	0	80-95	75-90	55-70	40-60	40-50	20-25
	16-23	gravelly clay loam	GC, SC	A-7	0	0	55-80	50-75	40-60	35-50	40-50	20-30
	23-33	very gravelly sandy clay loam	GC	A-2	0	0	50-55	45-50	35-45	25-35	35-45	15-20
	33-60	very gravelly coarse sand, gravelly loamy sand	GM, GP-GM	A-1	0	0	40-60	35-55	25-40	5-20	---	NP
Welch-----	0-8	loam	CL-ML	A-4	0	0	95-100	95-100	85-95	60-70	25-30	5-10
	8-60	stratified sandy loam to silty clay loam	CL	A-6	0	0	80-100	75-100	65-90	50-70	30-40	10-20
1790: Donna-----	0-7	gravelly loam	CL	A-6	0	0	65-75	60-75	55-70	50-60	30-40	10-20
	7-33	clay	CH	A-7	0	0	80-90	75-85	75-80	70-80	60-70	30-40
	33-43	indurated			---	---	---	---	---	---	---	---
	43-60	stratified extremely gravelly sandy loam to gravelly sandy clay loam	GC	A-2	0-5	10-35	40-55	30-40	20-30	10-20	30-40	10-20

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
Krenka-----	0-17	loam	SC-SM	A-4	0	0	80-90	75-85	50-60	40-50	20-25	5-10
	17-31	gravelly sandy clay loam, very gravelly sandy clay loam	GC	A-2	0	0-10	45-65	40-60	30-40	20-35	25-35	10-15
	31-60	extremely cobble sandy clay loam, very cobble sandy clay loam	GC	A-2	0-15	15-30	35-55	30-50	20-35	15-25	25-35	10-15
McIvey-----	0-12	very cobble loam	GC	A-6	0	25-50	50-70	45-65	40-60	35-50	30-40	10-15
	12-18	very gravelly clay loam, gravelly clay loam	CL, SC, GC	A-7	0	0-10	55-85	45-75	40-70	35-60	40-45	20-25
	18-60	very gravelly clay, very cobble clay, extremely cobble clay	GC	A-2, A-7	0-25	10-55	45-60	35-50	35-45	30-45	45-55	30-35
1800: Chen-----	0-3	very gravelly loam	GC	A-2	0	0-15	50-65	35-50	30-45	25-35	30-35	10-15
	3-16	very gravelly clay, extremely gravelly clay, very cobble clay	GC	A-2, A-7	0-5	0-45	35-50	25-45	25-45	20-40	50-60	25-35
	16-20	unweathered bedrock			---	---	---	---	---	---	---	---
Graley-----	0-7	stony loam	CL-ML, ML, SM, SC-SM	A-4	1-5	5-15	70-95	60-90	50-85	35-65	20-30	NP-10
	7-19	very gravelly clay loam, very gravelly clay	GC	A-2, A-7	0-25	0-25	40-55	35-50	30-50	25-40	45-55	20-30
	19-23	unweathered bedrock			---	---	---	---	---	---	---	---
Rock Outcrop---	---	---	---	---	---	---	---	---	---	---	---	
1810: Sumine-----	0-9	very gravelly loam	GC-GM	A-2, A-4	0	10-15	50-65	45-60	40-50	30-40	20-30	5-10
	9-23	very gravelly clay loam, very cobble clay loam, very gravelly loam	GC	A-2, A-7, A-6	0-5	15-40	45-70	35-65	30-50	25-45	35-45	15-25
	23-27	unweathered bedrock			---	---	---	---	---	---	---	---
Tusel-----	0-17	gravelly loam	ML, SM	A-4	0	0	75-95	65-85	55-75	45-65	25-35	NP-10
	17-60	extremely gravelly sandy clay loam, extremely gravelly clay loam, very gravelly clay loam	GC	A-2	0	15-45	30-50	25-40	20-35	15-30	30-40	10-20

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
Hapgood-----	0-8	very gravelly loam	GC-GM, GM	A-2	0	0	40-55	35-50	30-40	25-35	20-30	NP-10
	8-36	very gravelly loam, very gravelly fine sandy loam	GC, GC-GM	A-2	0	0-10	50-60	45-55	35-50	25-35	25-30	5-10
	36-50	very cobbly loam, very gravelly sandy loam	GM	A-1, A-2	0	15-40	55-65	50-60	35-45	20-35	20-30	NP-5
	50-54	unweathered bedrock			---	---	---	---	---	---	---	---
1820: Hussa-----	0-16	silt loam	CL-ML, ML	A-4	0	0	100	95-100	90-95	70-80	25-35	5-10
	16-60	stratified sandy clay loam to silty clay loam	CL	A-6, A-7	0	0	95-100	90-100	80-90	50-80	30-45	10-20
Halleck-----	0-14	silt loam	ML	A-4	0	0	100	100	90-100	75-90	30-35	5-10
	14-41	stratified silt loam to silty clay loam	CL, ML	A-6, A-7	0	0	100	100	95-100	85-95	30-50	10-20
	41-60	very gravelly coarse sandy loam	GM	A-1	0	0	40-55	35-50	15-35	10-25	15-25	NP-5
Welsum-----	0-11	silt loam	CL	A-6	0	0	100	100	90-100	60-75	30-35	10-15
	11-25	clay loam, silty clay loam	CL	A-6	0	0-10	95-100	85-100	80-95	75-85	35-40	15-20
	25-60	extremely cobbly loamy sand, very cobbly sand, extremely gravelly sand	GM, GP-GM, SP-SM, SM	A-1	0-15	10-45	30-70	25-65	15-40	5-15	---	NP
1831: Enko-----	0-2	fine sandy loam	SC-SM	A-4	0	0	95-100	85-100	60-75	35-50	20-30	5-10
	2-14	loam, sandy loam, fine sandy loam	CL-ML, SC-SM	A-4	0	0	95-100	85-100	60-90	35-70	20-30	5-10
	14-32	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
	32-60	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
Kelk-----	0-12	silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	85-95	25-35	5-15
	12-20	silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	95-100	95-100	85-95	25-35	5-15
	20-60	silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	75-95	25-35	5-15
Enko-----	0-2	silt loam	CL-ML	A-4	0	0	95-100	85-100	75-100	50-70	20-30	5-10
	2-14	loam, sandy loam, fine sandy loam	CL-ML, SC-SM	A-4	0	0	95-100	85-100	60-90	35-70	20-30	5-10
	14-32	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10
	32-60	sandy loam, fine sandy loam, loam	CL-ML, SC-SM	A-2, A-4	0	0	85-100	75-100	60-90	30-65	20-25	5-10

TABLE 10.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage Passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
1840: Amene-----	0-12	very gravelly silt loam	GC	A-2, A-6	0	0	40-55	35-50	30-45	25-45	30-35	10-15
	12-18	very gravelly silt loam, very gravelly loam	GC	A-2, A-6	0	0-25	35-60	30-45	25-45	20-40	30-35	10-15
	18-22	unweathered bedrock			---	---	---	---	---	---	---	---
Belsac-----	0-21	very gravelly loam	GC-GM	A-2	0	0-15	35-55	30-50	25-45	20-35	25-30	5-10
	21-35	very gravelly loam	GC-GM	A-2	0	0-15	35-55	30-50	25-45	20-35	25-30	5-10
	35-39	weathered bedrock			---	---	---	---	---	---	---	---
Chen-----	0-3	very gravelly loam	GC	A-2	0	0-15	50-65	35-50	30-45	25-35	30-35	10-15
	3-16	very gravelly clay, extremely gravelly clay, very cobbly clay	GC	A-2, A-7	0-5	0-45	35-50	25-45	25-45	20-40	50-60	25-35
	16-20	unweathered bedrock			---	---	---	---	---	---	---	---
1850: Bullump-----	0-10	very gravelly loam	GC, SC	A-2	0	0-10	45-70	35-50	30-45	25-35	25-35	10-15
	10-49	very gravelly clay loam, very gravelly loam, very gravelly sandy clay loam	GC	A-2, A-7, A-6	0	0-15	40-65	30-50	25-45	15-40	35-45	15-20
	49-53	unweathered bedrock			---	---	---	---	---	---	---	---
Cleavage-----	0-7	extremely gravelly loam	GC-GM	A-2	0	0-10	35-45	15-25	10-25	10-20	25-30	5-10
	7-15	very cobbly clay loam, extremely gravelly clay loam, very gravelly loam	GC	A-2	0-5	0-45	40-55	30-45	25-45	20-35	30-45	10-20
	15-19	unweathered bedrock			---	---	---	---	---	---	---	---
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
1861: Equis-----	0-6	silty clay	MH	A-7	0	0	100	100	95-100	95-100	60-80	20-30
	6-24	silty clay, clay	MH	A-7	0	0	100	100	95-100	95-100	60-80	20-30
	24-41	silty clay, silty clay loam	MH	A-7	0	0	100	100	95-100	95-100	50-70	15-25
	41-60	silty clay loam, silty clay, silt loam	MH, ML	A-6, A-7	0	0	100	95-100	90-100	85-95	35-70	10-25

TABLE 11.--PHYSICAL PROPERTIES OF SOILS

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer)

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0053: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Urmafot-----	0-7	18-27	1.25-1.45	4.00-14.00	0.06-0.12	0.0-2.9	2.0-4.0	.10	.32	1	6	48
	7-16	18-27	1.35-1.55	4.00-14.00	0.10-0.15	3.0-5.9	1.0-2.0	.20	.37			
	16-29	---	---	0.00-0.01	---	---	---	---	---			
	29-60	5-15	1.50-1.70	14.00-42.00	0.03-0.06	0.0-2.9	0.0-0.8	.02	.17			
0062: Amtoft-----	0-4	15-25	1.35-1.55	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.37	1	6	48
	4-15	12-27	1.40-1.60	4.00-14.00	0.06-0.11	0.0-2.9	0.5-1.0	.10	.37			
	15-25	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop---	---	---	---	---	---	---	---	---	---			
Amtoft-----	0-2	15-25	1.35-1.55	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.37	1	6	48
	2-12	12-27	1.40-1.60	4.00-14.00	0.06-0.11	0.0-2.9	0.5-1.0	.10	.37			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
0066: Zimbob-----	0-2	10-18	1.15-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.32	1	6	48
	2-11	10-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Zimbob-----	0-1	10-18	1.15-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.32	1	6	48
	1-6	10-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	0.5-1.0	.10	.32			
	6-10	---	---	0.00-0.01	---	---	---	---	---			
0067: Tecomar-----	0-2	18-27	1.30-1.45	4.00-14.00	0.03-0.06	0.0-2.9	1.0-2.0	.17	.43	1	8	0
	2-14	20-27	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.0-0.8	.10	.64			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Tecomar-----	0-2	18-27	1.30-1.45	4.00-14.00	0.03-0.06	0.0-2.9	1.0-2.0	.17	.43	1	8	0
	2-12	20-27	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.0-0.8	.10	.64			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Pookaloo-----	0-2	10-18	1.20-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	2-14	10-18	1.35-1.50	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.20	.55			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
0069: Zimbob-----	0-2	10-18	1.15-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.32	1	6	48
	2-11	10-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Hyzen-----	0-3	8-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	2.0-5.0	.17	.43	1	8	0
	3-13	10-18	1.20-1.40	4.00-14.00	0.05-0.08	0.0-2.9	2.0-4.0	.15	.43			
	13-17	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop---	---	---	---	---	---	---	---	---	---			
0070: Stewval-----	0-2	12-18	1.35-1.50	14.00-42.00	0.07-0.09	0.0-2.9	0.5-2.0	.15	.43	1	5	56
	2-6	24-30	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.43			
	6-10	---	---	0.00-0.01	---	---	---	---	---			
Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
	27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0071:												
Stewval-----	0-2	12-18	1.35-1.50	14.00-42.00	0.07-0.09	0.0-2.9	0.5-2.0	.15	.43	1	5	56
	2-6	24-30	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.43			
	6-10	---	---	0.00-0.01	---	---	---	---	---			
Wesfil-----	0-6	12-18	1.30-1.50	4.00-14.00	0.07-0.10	0.0-2.9	1.0-2.0	.10	.43	1	6	48
	6-10	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop----	---	---	---	---	---	---	---	---	---	-	---	---
0080:												
Stewval-----	0-2	12-18	1.35-1.50	14.00-42.00	0.07-0.09	0.0-2.9	0.5-2.0	.15	.43	1	5	56
	2-6	24-30	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.43			
	6-10	---	---	0.00-0.01	---	---	---	---	---			
0092:												
Wesfil-----	0-6	12-18	1.30-1.50	4.00-14.00	0.07-0.10	0.0-2.9	1.0-2.0	.10	.43	1	6	48
	6-10	---	---	0.00-0.01	---	---	---	---	---			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0098:												
Wesfil-----	0-6	12-18	1.30-1.50	4.00-14.00	0.07-0.10	0.0-2.9	1.0-2.0	.10	.43	1	6	48
	6-10	---	---	0.00-0.01	---	---	---	---	---			
Tarnach-----	0-3	18-27	1.35-1.55	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.43	1	6	48
	3-12	18-27	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	0.5-1.0	.15	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Wesfil-----	0-6	12-18	1.30-1.50	4.00-14.00	0.07-0.10	0.0-2.9	1.0-2.0	.10	.43	1	6	48
	6-10	---	---	0.00-0.01	---	---	---	---	---			
0099:												
Wesfil-----	0-6	12-18	1.30-1.50	4.00-14.00	0.07-0.10	0.0-2.9	1.0-2.0	.10	.43	1	6	48
	6-10	---	---	0.00-0.01	---	---	---	---	---			
Armespan-----	0-7	10-18	1.40-1.55	14.00-42.00	0.05-0.08	0.0-2.9	0.8-2.0	.10	.32	3	5	56
	7-21	12-18	1.35-1.50	4.00-14.00	0.09-0.12	0.0-2.9	0.0-0.5	.24	.37			
	21-32	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	32-60	5-10	1.45-1.60	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.17			
Heist-----	0-4	8-18	1.35-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.6-1.0	.55	.55	5	4L	86
	4-40	8-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.6-1.0	.24	.32			
	40-60	8-18	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.6	.24	.32			
0100:												
Benin-----	0-7	15-25	1.30-1.50	4.00-14.00	0.17-0.19	0.0-2.9	0.0-0.5	.49	.49	3	4L	86
	7-60	40-50	1.50-1.70	0.01-0.42	0.14-0.16	6.0-8.9	0.0-0.5	.37	.37			
Mazuma-----	0-15	10-14	1.40-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	15-60	5-15	1.45-1.65	14.00-42.00	0.10-0.14	0.0-2.9	0.0-0.5	.24	.28			
0101:												
Toano-----	0-9	8-15	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.5-1.0	.64	.64	5	4L	86
	9-27	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
	27-60	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
Linoyer-----	0-9	12-18	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49	5	4L	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.15-0.18	0.0-2.9	0.5-1.0	.49	.49			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0103: Benin-----	0-7 7-60	15-25 40-50	1.30-1.50 1.50-1.70	4.00-14.00 0.01-0.42	0.17-0.19 0.14-0.16	0.0-2.9 6.0-8.9	0.0-0.5 0.0-0.5	.49 .37	.49 .37	3	4L	86
Playas-----	0-6 6-60	27-40 35-70	1.50-1.70 1.60-1.80	0.01-0.42 0.01-0.42	0.02-0.04 0.02-0.04	6.0-8.9 6.0-8.9	0.0-0.1 0.0-0.1	.37 .37	.37 .37	-	4L	86
0111: Gravier-----	0-3 3-60	8-18 8-18	1.45-1.65 1.50-1.70	14.00-42.00 14.00-42.00	0.06-0.08 0.04-0.10	0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5	.10 .05	.24 .17	5	5	56
Armespan-----	0-7 7-21 21-32 32-60	10-18 12-18 10-18 5-10	1.40-1.55 1.35-1.50 1.45-1.65 1.45-1.60	14.00-42.00 4.00-14.00 4.00-14.00 42.00-141.0	0.05-0.08 0.09-0.12 0.05-0.08 0.02-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.8-2.0 0.0-0.5 0.0-0.5 0.0-0.5	.10 .24 .10 .05	.32 .37 .24 .17	3	5	56
113: Gravier-----	0-3 3-44 44-60	8-18 8-18 0-5	1.45-1.60 1.30-1.50 1.40-1.60	4.00-14.00 14.00-42.00 42.00-141.0	0.13-0.15 0.04-0.10 0.02-0.04	0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.8 0.0-0.5 0.0-0.5	.20 .05 .05	.37 .28 .24	4	5	56
Gravier-----	0-3 3-60	8-18 8-18	1.45-1.65 1.50-1.70	14.00-42.00 14.00-42.00	0.06-0.08 0.04-0.10	0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5	.10 .05	.24 .17	5	5	
Jericho-----	0-4 4-14 14-28 28-60	15-20 10-18 --- 2-4	1.40-1.60 1.50-1.70 --- 1.55-1.75	4.00-14.00 14.00-42.00 0.00-0.01 141.0-705.0	0.09-0.11 0.06-0.08 --- 0.02-0.03	0.0-2.9 0.0-2.9 --- 0.0-2.9	1.0-2.0 0.5-1.0 --- 0.0-0.5	.17 .05 --- .02	.37 .24 --- .15	1	6	48
0116: Gravier-----	0-3 3-44 44-60	8-18 8-18 0-5	1.45-1.60 1.30-1.50 1.40-1.60	4.00-14.00 14.00-42.00 42.00-141.0	0.13-0.15 0.04-0.10 0.02-0.04	0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.8 0.0-0.5 0.0-0.5	.20 .05 .05	.37 .28 .24	4	5	56
Izamatch-----	0-3 3-13 13-22 22-60	8-18 8-18 0-8 0-8	1.50-1.70 1.50-1.70 1.55-1.70 1.60-1.75	14.00-42.00 14.00-42.00 42.00-141.0 42.00-141.0	0.07-0.09 0.04-0.09 0.03-0.05 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5 0.0-0.5 0.0-0.5	.15 .10 .10 .05	.28 .24 .20 .20	2	4	86
Loray-----	0-12 12-60	10-15 0-8	1.55-1.65 1.50-1.65	14.00-42.00 141.0-705.0	0.07-0.09 0.03-0.05	0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5	.15 .05	.28 .20	2	4	86
0118: Gravier-----	0-3 3-60	8-18 8-18	1.45-1.65 1.50-1.70	14.00-42.00 14.00-42.00	0.06-0.08 0.04-0.10	0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5	.10 .05	.24 .17	5	5	56
Automal-----	0-8 8-49 49-60	15-25 10-20 5-15	1.30-1.50 1.40-1.60 1.50-1.70	4.00-14.00 0.42-1.40 0.42-1.40	0.14-0.18 0.04-0.06 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.0-1.0 0.0-0.1	.20 .02 .02	.55 .37 .10	5	5	56
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	1.35-1.55 1.35-1.55 1.50-1.65	14.00-42.00 14.00-42.00 42.00-141.0	0.08-0.11 0.11-0.13 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.17 .17 .05	.32 .37 .17	2	4	86
0119: Wintermute-----	0-3 3-15 15-53 53-60	12-18 8-18 8-18 27-35	1.40-1.60 1.40-1.60 1.45-1.65 1.40-1.60	4.00-14.00 4.00-14.00 0.42-1.40 0.42-1.40	0.10-0.15 0.10-0.16 0.03-0.07 0.12-0.18	0.0-2.9 0.0-2.9 0.0-2.9 3.0-5.9	0.0-0.6 0.0-0.5 0.0-0.5 0.0-0.5	.20 .28 .05 .17	.43 .49 .37 .55	3	4	86
Linoyer-----	0-9 9-60	12-18 12-18	1.30-1.50 1.30-1.50	4.00-14.00 4.00-14.00	0.14-0.16 0.15-0.18	0.0-2.9 0.0-2.9	0.5-1.0 0.5-1.0	.43 .49	.43 .49	5	3	86
0120: Izamatch-----	0-3 3-13 13-22 22-60	8-18 8-18 0-8 0-8	1.50-1.70 1.50-1.70 1.55-1.70 1.60-1.75	14.00-42.00 14.00-42.00 42.00-141.0 42.00-141.0	0.04-0.08 0.04-0.09 0.03-0.05 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5 0.0-0.5 0.0-0.5	.10 .10 .10 .05	.37 .24 .20 .20	2	5	56

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Armespan-----	0-7	10-18	1.40-1.55	14.00-42.00	0.05-0.08	0.0-2.9	0.8-2.0	.10	.32	3	5	56
	7-21	12-18	1.35-1.50	4.00-14.00	0.09-0.12	0.0-2.9	0.0-0.5	.24	.37			
	21-32	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	32-60	5-10	1.45-1.60	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.17			
Cliffdown-----	0-6	10-18	1.40-1.55	14.00-42.00	0.06-0.07	0.0-2.9	0.5-1.0	.10	.32	5	5	56
	6-60	8-18	1.40-1.60	14.00-42.00	0.03-0.06	0.0-2.9	0.5-1.0	.10	.32			
0122: Gravier-----	0-3	8-18	1.45-1.65	4.00-14.00	0.13-0.15	0.0-2.9	0.0-0.5	.20	.37	5	5	56
	3-60	8-18	1.50-1.70	14.00-42.00	0.04-0.10	0.0-2.9	0.0-0.5	.05	.17			
Izamatc-----	0-3	8-18	1.50-1.70	14.00-42.00	0.04-0.08	0.0-2.9	0.0-0.5	.10	.37	2	5	56
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
0130: Tooele-----	0-5	5-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.5-1.0	.28	.32	5	3	86
	5-44	5-18	1.50-1.65	14.00-42.00	0.11-0.15	0.0-2.9	0.0-0.5	.28	.32			
	44-61	8-18	1.45-1.65	14.00-42.00	0.12-0.18	0.0-2.9	0.0-0.5	.32	.37			
Benin-----	0-7	15-25	1.30-1.50	4.00-14.00	0.17-0.19	0.0-2.9	0.0-0.5	.49	.49	3	4L	86
	7-60	40-50	1.50-1.70	0.01-0.42	0.14-0.16	6.0-8.9	0.0-0.5	.37	.37			
0140: Gollaher-----	0-5	15-27	1.05-1.20	4.00-14.00	0.04-0.06	0.0-2.9	2.0-4.0	.05	.32	1	8	0
	5-10	15-27	1.05-1.20	4.00-14.00	0.04-0.09	0.0-2.9	0.5-2.0	.05	.43			
	10-14	---	---	0.00-0.01	---	---	---	---	---			
Belsac-----	0-21	18-25	1.05-1.20	4.00-14.00	0.05-0.11	0.0-2.9	3.0-5.0	.10	.32	3	7	38
	21-35	18-25	1.15-1.30	4.00-14.00	0.05-0.11	0.0-2.9	2.0-3.0	.10	.32			
	35-39	---	---	0.01-0.42	---	---	---	---	---			
0151: Hopeka-----	0-10	18-27	1.15-1.25	4.00-14.00	0.04-0.07	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	10-14	---	---	0.00-0.01	---	---	---	---	---			
Amene-----	0-12	20-27	1.05-1.25	4.00-14.00	0.10-0.15	0.0-2.9	2.0-4.0	.17	.49	1	6	48
	12-18	18-27	1.10-1.30	4.00-14.00	0.06-0.13	0.0-2.9	0.5-2.0	.15	.43			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop---	---	---	---	---	---	---	---	---	---	---	---	---
0154: Hopeka-----	0-10	18-27	1.15-1.25	4.00-14.00	0.04-0.07	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	10-14	---	---	0.00-0.01	---	---	---	---	---			
Tecomar-----	0-2	18-27	1.30-1.45	4.00-14.00	0.04-0.08	0.0-2.9	1.0-2.0	.20	.64	1	8	0
	2-14	18-27	1.30-1.45	4.00-14.00	0.04-0.10	0.0-2.9	0.0-0.8	.10	.64			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
0160: Saltair-----	0-11	20-27	1.15-1.25	1.40-4.00	0.16-0.18	0.0-2.9	0.0-1.0	.49	.49	5	4L	86
	11-60	20-35	1.20-1.30	0.42-1.40	0.16-0.18	3.0-5.9	0.0-0.5	.49	.49			
Kawich-----	0-2	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	5	1	250
	2-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
0161: Saltair-----	0-11	20-27	1.15-1.25	1.40-4.00	0.16-0.18	0.0-2.9	0.0-1.0	.49	.49	5	4L	86
	11-60	20-35	1.20-1.30	0.42-1.40	0.16-0.18	3.0-5.9	0.0-0.5	.49	.49			
Playas-----	0-6	35-70	---	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	---	5	5	56
	6-60	35-70	---	0.01-0.42	0.02-0.04	6.0-8.9	---	.37	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink- swell potential Pct	Organic matter Pct	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
0171: Loray-----	0-12 12-60	10-15 0-8	1.55-1.65 1.50-1.65	14.00-42.00 141.0-705.0	0.07-0.09 0.03-0.05	0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5	.15 .05	.28 .20	2	4	86
Gravier-----	0-3 3-44 44-60	8-18 8-18 0-5	1.45-1.60 1.30-1.50 1.40-1.60	14.00-42.00 14.00-42.00 42.00-141.0	0.06-0.08 0.04-0.10 0.02-0.04	0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5 0.0-0.5	.10 .05 .05	.32 .28 .24	4	5	56
Toano-----	0-9 9-27 27-60	8-15 8-15 8-15	1.35-1.55 1.40-1.60 1.40-1.60	4.00-14.00 4.00-14.00 4.00-14.00	0.14-0.16 0.14-0.16 0.14-0.16	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.55 .55 .55	.55 .55 .55	5	3	86
0173: Cliffdown-----	0-6 6-60	10-18 8-18	1.40-1.55 1.40-1.60	14.00-42.00 14.00-42.00	0.06-0.07 0.03-0.06	0.0-2.9 0.0-2.9	0.5-1.0 0.5-1.0	.10 .10	.32 .32	5	5	56
Armespan-----	0-7 7-21 21-32 32-60	10-18 12-18 10-18 5-10	1.40-1.55 1.35-1.50 1.45-1.65 1.45-1.60	14.00-42.00 4.00-14.00 4.00-14.00 42.00-141.0	0.05-0.08 0.09-0.12 0.05-0.08 0.02-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.8-2.0 0.0-0.5 0.0-0.5 0.0-0.5	.10 .24 .10 .05	.32 .37 .24 .17	3	5	56
Izamatch-----	0-3 3-13 13-22 22-60	8-18 8-18 0-8 0-8	1.50-1.70 1.50-1.70 1.55-1.70 1.60-1.75	14.00-42.00 14.00-42.00 42.00-141.0 42.00-141.0	0.04-0.08 0.04-0.09 0.03-0.05 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5 0.0-0.5 0.0-0.5	.10 .10 .10 .05	.37 .24 .20 .20	2	5	56
0174: Wintermute-----	0-3 3-15 15-53 53-60	8-18 8-18 8-18 27-35	1.35-1.55 1.40-1.60 1.45-1.65 1.40-1.60	4.00-14.00 4.00-14.00 0.42-1.40 0.42-1.40	0.12-0.18 0.10-0.16 0.03-0.07 0.12-0.18	0.0-2.9 0.0-2.9 0.0-2.9 3.0-5.9	0.0-0.8 0.0-0.5 0.0-0.5 0.0-0.5	.28 .28 .05 .17	.55 .49 .37 .55	3	5	56
Linoyer-----	0-9 9-60	12-18 12-18	1.30-1.50 1.30-1.50	4.00-14.00 4.00-14.00	0.16-0.18 0.15-0.18	0.0-2.9 0.0-2.9	0.5-1.0 0.5-1.0	.49 .49	.49 .49	5	4L	86
Okan-----	0-8 8-38 38-60	8-18 8-18 4-8	1.40-1.55 1.45-1.60 1.50-1.70	14.00-42.00 14.00-42.00 42.00-141.0	0.10-0.12 0.10-0.12 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5	.20 .20 .05	.24 .24 .24	5	3	86
0175: Loray-----	0-12 12-60	10-15 0-8	1.55-1.65 1.50-1.65	14.00-42.00 141.0-705.0	0.07-0.09 0.03-0.05	0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5	.15 .05	.28 .20	2	4	86
Wintermute-----	0-3 3-15 15-53 53-60	8-18 8-18 8-18 27-35	1.35-1.55 1.40-1.60 1.45-1.65 1.40-1.60	4.00-14.00 4.00-14.00 0.42-1.40 0.42-1.40	0.12-0.18 0.10-0.16 0.03-0.07 0.12-0.18	0.0-2.9 0.0-2.9 0.0-2.9 3.0-5.9	0.0-0.8 0.0-0.5 0.0-0.5 0.0-0.5	.28 .28 .05 .17	.55 .49 .37 .55	3	5	56
0176: Loray-----	0-12 12-60	10-15 0-8	1.55-1.65 1.50-1.65	14.00-42.00 141.0-705.0	0.07-0.09 0.03-0.05	0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5	.15 .05	.28 .20	2	4	86
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	1.30-1.50 1.35-1.55 1.50-1.65	14.00-42.00 14.00-42.00 42.00-141.0	0.13-0.15 0.11-0.13 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.20 .17 .05	.32 .37 .17	2	5	56
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	1.35-1.55 1.35-1.55 1.50-1.65	14.00-42.00 14.00-42.00 42.00-141.0	0.09-0.12 0.11-0.13 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.8 0.0-0.5 0.0-0.5	.17 .17 .05	.28 .37 .17	2	4	86
0181: Peeko-----	0-4 4-10 10-30	10-27 18-27 ---	1.35-1.55 1.40-1.60 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.10-0.15 0.12-0.15 ---	0.0-2.9 3.0-5.9 ---	1.0-2.0 0.5-1.0 ---	.24 .24 ---	.43 .43 ---	1	5	56

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Dewar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.13-0.17	3.0-5.9	1.0-2.0	.37	.43	1	7	38
	3-13	27-35	1.20-1.35	1.40-4.00	0.12-0.16	3.0-5.9	0.5-1.0	.37	.43			
	13-19	15-27	1.15-1.35	4.00-14.00	0.12-0.16	0.0-2.9	0.5-1.0	.43	.64			
	19-40	---	---	0.00-0.01	---	---	---	---	---			
Peeko-----	0-4	10-27	1.35-1.55	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
0182: Peeko-----	0-4	18-27	1.30-1.50	4.00-14.00	0.18-0.20	3.0-5.9	1.0-2.0	.32	.43	1	4L	86
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
Peeko-----	0-4	18-27	1.30-1.50	4.00-14.00	0.18-0.20	3.0-5.9	1.0-2.0	.32	.43	1	4L	86
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
Gance-----	0-5	20-25	1.35-1.55	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	5	7	38
	5-20	35-55	1.35-1.50	0.42-1.40	0.04-0.10	3.0-5.9	0.0-0.5	.10	.37			
	20-60	10-20	1.50-1.70	1.40-14.00	0.02-0.11	0.0-2.9	0.0-0.5	.05	.32			
0183: Peeko-----	0-4	10-27	1.35-1.55	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
Enko-----	0-2	10-18	1.35-1.45	14.00-42.00	0.11-0.15	0.0-2.9	1.0-2.0	.43	.49	5	3	86
	2-14	10-18	1.40-1.50	14.00-42.00	0.12-0.17	0.0-2.9	0.5-1.0	.43	.49			
	14-32	10-18	1.65-1.70	0.42-1.40	0.10-0.13	0.0-2.9	0.0-0.5	.37	.43			
	32-60	10-18	1.40-1.50	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.43	.49			
Izar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	3-12	18-25	1.20-1.30	4.00-14.00	0.05-0.11	0.0-2.9	0.0-1.0	.10	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
0185: Peeko-----	0-4	18-27	1.30-1.50	4.00-14.00	0.18-0.20	3.0-5.9	1.0-2.0	.32	.43	1	4L	86
	0-4	18-27	1.30-1.50	4.00-14.00	0.18-0.20	3.0-5.9	1.0-2.0	.32	.43			
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
Chiara-----	0-4	10-18	1.25-1.40	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	1	5	56
	4-11	10-18	1.35-1.55	4.00-14.00	0.16-0.19	0.0-2.9	0.5-1.0	.49	.49			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0186: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Pharo-----	0-13	15-20	1.40-1.60	4.00-14.00	0.11-0.14	0.0-2.9	2.0-4.0	.20	.32	2	5	56
	13-36	10-20	1.50-1.65	4.00-14.00	0.05-0.09	0.0-2.9	0.5-1.0	.10	.28			
	36-60	2-8	1.60-1.75	141.0-705.0	0.01-0.02	0.0-2.9	0.0-0.5	.02	.10			
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
0187: Peeko-----	0-4	10-27	1.35-1.55	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Izar-----	0-1 1-10 10-14	18-25 18-25 ---	1.15-1.25 1.20-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.07-0.11 0.05-0.11 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-1.0 ---	.15 .10 ---	.55 .43 ---	1	6	48
Izar-----	0-3 3-12 12-16	18-25 18-25 ---	1.15-1.25 1.20-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.07-0.11 0.05-0.11 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-1.0 ---	.15 .10 ---	.55 .43 ---	1	6	48
0188: Palinor-----	0-8 8-16 16-34 34-60	10-18 10-18 --- 2-8	1.30-1.50 1.40-1.60 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 42.00-141.0	0.05-0.11 0.04-0.09 --- 0.03-0.08	0.0-2.9 0.0-2.9 --- 0.0-2.9	1.0-2.0 0.5-1.0 --- 0.0-0.5	.15 .10 --- .05	.55 .49 --- .24	1	6	48
Automal-----	0-8 8-49 49-60	15-25 10-20 5-15	1.30-1.50 1.40-1.60 1.50-1.70	4.00-14.00 0.42-1.40 0.42-1.40	0.14-0.18 0.04-0.06 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.0-1.0 0.0-0.1	.20 .02 .02	.55 .37 .10	5	5	56
Izar-----	0-1 1-10 10-14	18-25 18-25 ---	1.15-1.25 1.20-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.07-0.11 0.05-0.11 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-1.0 ---	.15 .10 ---	.55 .43 ---	1	6	48
0192: Hutchley-----	0-4 4-13 13-17	12-25 28-35 ---	1.15-1.25 1.40-1.50 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.09-0.12 0.09-0.11 ---	0.0-2.9 3.0-5.9 ---	2.0-3.0 1.0-2.0 ---	.10 .10 ---	.28 .43 ---	1	7	38
Simon-----	0-10 10-15 15-47 47-60	10-20 18-35 35-45 20-35	1.20-1.40 1.25-1.45 1.25-1.40 1.35-1.55	4.00-14.00 1.40-4.00 1.40-4.00 4.00-14.00	0.17-0.19 0.17-0.20 0.16-0.19 0.08-0.10	0.0-2.9 3.0-5.9 6.0-8.9 0.0-2.9	2.0-4.0 0.5-2.0 0.5-1.0 0.0-0.5	.37 .37 .20 .05	.43 .49 .37 .32	4	5	56
0201: Tecomar-----	0-2 2-14 14-18	18-27 18-27 ---	1.30-1.45 1.30-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.04-0.08 0.04-0.10 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.8 ---	.20 .10 ---	.64 .64 ---	1	8	0
Hopeka-----	0-10 10-14	18-27 ---	1.15-1.25 ---	4.00-14.00 0.00-0.01	0.04-0.07 ---	0.0-2.9 ---	1.0-2.0 ---	.20 ---	.43 ---	1	6	48
Rock Outcrop----	---	---	---	---	---	---	---	---	---	-	---	---
0203: Tecomar-----	0-2 2-14 14-18	18-27 20-27 ---	1.30-1.45 1.30-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.03-0.06 0.04-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.8 ---	.17 .10 ---	.43 .64 ---	1	8	0
Pookaloo-----	0-2 2-14 14-18	10-18 10-18 ---	1.20-1.35 1.35-1.50 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.11-0.13 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.5 ---	.20 .20 ---	.43 .55 ---	1	6	48
Pharo-----	0-13 13-36 36-60	15-20 10-20 2-8	1.40-1.60 1.50-1.65 1.60-1.75	4.00-14.00 4.00-14.00 141.0-705.0	0.11-0.14 0.05-0.09 0.01-0.02	0.0-2.9 0.0-2.9 0.0-2.9	2.0-4.0 0.5-1.0 0.0-0.5	.20 .10 .02	.32 .28 .10	2	5	56
0210: Mazuma-----	0-15 15-60	10-14 5-15	1.40-1.55 1.45-1.65	4.00-14.00 14.00-42.00	0.19-0.21 0.10-0.14	0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5	.43 .24	.43 .28	5	4L	86
Hardhat-----	0-9 9-19 19-40 40-60	8-18 8-18 5-15 5-15	1.30-1.50 1.20-1.40 1.50-1.70 1.50-1.70	4.00-14.00 4.00-14.00 1.40-4.00 1.40-4.00	0.18-0.20 0.15-0.19 0.11-0.16 0.05-0.11	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5 0.0-0.5	.43 .43 .32 .17	.49 .49 .49 .32	5	4L	86
Loray-----	0-12 12-60	10-15 0-8	1.55-1.65 1.50-1.65	14.00-42.00 141.0-705.0	0.07-0.09 0.03-0.05	0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5	.15 .05	.28 .20	2	4	86

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink-swell potential Pct	Organic matter Pct	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
0211: Valmy-----	0-9	18-27	1.30-1.50	4.00-14.00	0.18-0.21	3.0-5.9	0.5-1.0	.43	.43	5	4L	86
	9-40	5-15	1.45-1.65	14.00-42.00	0.12-0.15	0.0-2.9	0.0-0.8	.32	.32			
	40-61	5-18	1.45-1.65	4.00-14.00	0.14-0.18	0.0-2.9	0.0-0.5	.49	.49			
Enko-----	0-2	10-18	1.35-1.45	14.00-42.00	0.11-0.15	0.0-2.9	1.0-2.0	.43	.49	5	3	86
	2-14	10-18	1.40-1.50	14.00-42.00	0.12-0.17	0.0-2.9	0.5-1.0	.43	.49			
	14-32	10-18	1.65-1.70	0.42-1.40	0.10-0.13	0.0-2.9	0.0-0.5	.37	.43			
	32-60	10-18	1.40-1.50	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.43	.49			
0230: Zafod-----	0-7	15-20	1.30-1.50	4.00-14.00	0.07-0.10	0.0-2.9	1.0-2.0	.05	.43	3	8	0
	7-28	5-15	1.50-1.70	42.00-141.0	0.04-0.07	0.0-2.9	0.5-1.0	.10	.20			
	28-38	---	---	0.42-1.40	---	---	---	---	---			
	38-60	2-8	1.60-1.80	42.00-141.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.10			
Pyrat-----	0-6	10-18	1.40-1.60	14.00-42.00	0.06-0.09	0.0-2.9	1.0-2.0	.05	.37	3	5	56
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.5-1.0	.15	.43			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
0231: Dacker-----	0-6	15-25	1.30-1.50	4.00-14.00	0.18-0.20	0.0-2.9	1.0-2.0	.43	.49	2	6	48
	6-11	27-35	1.25-1.45	1.40-4.00	0.16-0.19	3.0-5.9	0.5-1.0	.37	.49			
	11-18	25-33	1.25-1.45	1.40-4.00	0.11-0.15	3.0-5.9	0.0-0.5	.49	.64			
	18-24	18-25	1.25-1.45	4.00-14.00	0.09-0.19	0.0-2.9	0.0-0.1	.49	.64			
	24-49	---	---	0.00-0.01	---	---	---	---	---			
Nevador-----	0-3	8-18	1.35-1.50	1.40-4.00	0.14-0.16	0.0-2.9	1.0-2.0	.43	.43	5	5	56
	3-13	25-35	1.30-1.50	1.40-4.00	0.14-0.16	3.0-5.9	0.5-1.0	.32	.43			
	13-60	5-15	1.40-1.60	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
Kelk-----	0-12	18-27	1.15-1.30	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.55	.55	5	6	48
	12-20	18-27	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	20-60	18-27	1.40-1.60	4.00-14.00	0.18-0.20	3.0-5.9	0.0-0.5	.49	.49			
0240: Hundraw-----	0-5	8-18	1.40-1.55	4.00-14.00	0.11-0.14	0.0-2.9	0.5-1.0	.17	.43	1	5	56
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
Cobra-----	0-7	15-25	1.10-1.25	4.00-14.00	0.21-0.28	3.0-5.9	1.0-2.0	.43	.49	3	6	48
	7-15	15-25	1.15-1.30	4.00-14.00	0.19-0.28	3.0-5.9	0.5-1.0	.37	.43			
	15-34	8-18	1.15-1.30	4.00-14.00	0.17-0.25	0.0-2.9	0.0-0.5	.37	.43			
	34-38	---	---	0.01-0.42	---	---	---	---	---			
0241: Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
Peeko-----	0-4	10-27	1.35-1.55	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
Kzin-----	0-3	15-25	1.25-1.45	4.00-14.00	0.09-0.11	0.0-2.9	2.0-3.0	.15	.49	1	6	48
	3-9	15-25	1.30-1.50	4.00-14.00	0.06-0.09	0.0-2.9	0.5-2.0	.15	.49			
	9-13	---	---	0.01-0.42	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0242: Cobre-----	0-7	15-25	1.10-1.25	4.00-14.00	0.21-0.28	3.0-5.9	1.0-2.0	.43	.49	3	6	48
	7-15	15-25	1.15-1.30	4.00-14.00	0.19-0.28	3.0-5.9	0.5-1.0	.37	.43			
	15-34	8-18	1.15-1.30	4.00-14.00	0.17-0.25	0.0-2.9	0.0-0.5	.37	.43			
	34-38	---	---	0.01-0.42	---	---	---	---	---			
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
Chiara-----	0-4	10-18	1.25-1.40	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	1	5	56
	4-11	10-18	1.35-1.55	4.00-14.00	0.16-0.19	0.0-2.9	0.5-1.0	.49	.49			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0244: Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
0250: Izar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	3-12	18-25	1.20-1.30	4.00-14.00	0.05-0.11	0.0-2.9	0.0-1.0	.10	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Holborn-----	0-3	18-27	1.30-1.50	4.00-14.00	0.11-0.15	3.0-5.9	1.0-2.0	.17	.32	1	5	56
	3-7	18-30	1.25-1.45	1.40-4.00	0.11-0.17	3.0-5.9	0.5-1.0	.20	.37			
	7-17	---	---	0.01-0.42	---	---	---	---	---			
Kzin-----	0-3	15-25	1.25-1.45	4.00-14.00	0.09-0.11	0.0-2.9	2.0-3.0	.15	.49	1	6	48
	3-9	15-25	1.30-1.50	4.00-14.00	0.06-0.09	0.0-2.9	0.5-2.0	.15	.49			
	9-13	---	---	0.01-0.42	---	---	---	---	---			
0251: Izar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	3-12	18-25	1.20-1.30	4.00-14.00	0.05-0.11	0.0-2.9	0.0-1.0	.10	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
0252: Izar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	3-12	18-25	1.20-1.30	4.00-14.00	0.05-0.11	0.0-2.9	0.0-1.0	.10	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0260:												
Dewar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.13-0.17	3.0-5.9	1.0-2.0	.37	.43	1	7	38
	3-13	27-35	1.20-1.35	1.40-4.00	0.12-0.16	3.0-5.9	0.5-1.0	.37	.43			
	13-19	15-27	1.15-1.35	4.00-14.00	0.12-0.16	0.0-2.9	0.5-1.0	.43	.64			
	19-40	---	---	0.00-0.01	---	---	---	---	---			
Chiara-----	0-4	10-18	1.25-1.40	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	1	5	56
	4-11	10-18	1.35-1.55	4.00-14.00	0.16-0.19	0.0-2.9	0.5-1.0	.49	.49			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Hunnton-----	0-8	10-25	1.20-1.25	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.49	.55	2	5	56
	8-12	20-30	1.50-1.55	1.40-4.00	0.15-0.21	3.0-5.9	0.5-2.0	.49	.49			
	12-21	45-55	1.20-1.25	0.42-1.40	0.10-0.16	6.0-8.9	0.5-1.0	.28	.37			
	21-40	---	---	0.00-0.01	---	---	---	---	---			
0270:												
Chiara-----	0-4	10-18	1.25-1.40	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	1	5	56
	4-11	10-18	1.35-1.55	4.00-14.00	0.16-0.19	0.0-2.9	0.5-1.0	.49	.49			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Kelk-----	0-12	18-27	1.15-1.30	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.55	.55	5	6	48
	12-20	18-27	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	20-60	18-27	1.40-1.60	4.00-14.00	0.18-0.20	3.0-5.9	0.0-0.5	.49	.49			
Kelk-----	0-12	18-27	1.15-1.30	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.55	.55	5	6	48
	12-20	18-27	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.5-1.0	.49	.49			
	20-60	18-27	1.40-1.60	4.00-14.00	0.18-0.20	3.0-5.9	0.0-0.5	.49	.49			
0273:												
Chiara-----	0-4	10-18	1.25-1.40	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	1	5	56
	4-11	10-18	1.35-1.55	4.00-14.00	0.16-0.19	0.0-2.9	0.5-1.0	.49	.49			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Dewar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.13-0.17	3.0-5.9	1.0-2.0	.37	.43	1	7	38
	3-13	27-35	1.20-1.35	1.40-4.00	0.12-0.16	3.0-5.9	0.5-1.0	.37	.43			
	13-19	15-27	1.15-1.35	4.00-14.00	0.12-0.16	0.0-2.9	0.5-1.0	.43	.64			
	19-40	---	---	0.00-0.01	---	---	---	---	---			
Enko-----	0-2	10-18	1.35-1.45	14.00-42.00	0.11-0.15	0.0-2.9	1.0-2.0	.43	.49	5	3	86
	2-14	10-18	1.40-1.50	14.00-42.00	0.12-0.17	0.0-2.9	0.5-1.0	.43	.49			
	14-32	10-18	1.65-1.70	0.42-1.40	0.10-0.13	0.0-2.9	0.0-0.5	.37	.43			
	32-60	10-18	1.40-1.50	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.43	.49			
0276:												
Chiara-----	0-4	10-18	1.25-1.40	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	1	5	56
	4-11	10-18	1.35-1.55	4.00-14.00	0.16-0.19	0.0-2.9	0.5-1.0	.49	.49			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Peeko-----	0-4	10-27	1.35-1.55	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
Urmafot-----	0-7	18-27	1.25-1.45	4.00-14.00	0.10-0.15	3.0-5.9	2.0-4.0	.20	.37	1	5	56
	7-16	18-27	1.35-1.55	4.00-14.00	0.10-0.15	3.0-5.9	1.0-2.0	.20	.37			
	16-29	---	---	0.00-0.01	---	---	---	---	---			
	29-60	5-15	1.50-1.70	14.00-42.00	0.03-0.06	0.0-2.9	0.0-0.8	.02	.17			
0279:												
Chiara-----	0-4	10-18	1.25-1.40	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	1	5	56
	4-11	10-18	1.35-1.55	4.00-14.00	0.16-0.19	0.0-2.9	0.5-1.0	.49	.49			
	11-15	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Parisa-----	0-5	8-18	1.50-1.65	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	2	5	56
	5-36	8-18	1.50-1.70	4.00-14.00	0.04-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-55	---	---	0.00-0.01	---	---	---	---	---			
	55-60	0-8	1.60-1.75	42.00-141.0	0.03-0.11	0.0-2.9	0.0-0.5	.02	.15			
Enko-----	0-2	10-18	1.35-1.45	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.43	.49	5	5	56
	2-14	10-18	1.40-1.50	14.00-42.00	0.12-0.17	0.0-2.9	0.5-1.0	.43	.49			
	14-32	10-18	1.55-1.65	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.43	.49			
	32-60	10-18	1.65-1.70	0.42-1.40	0.10-0.13	0.0-2.9	0.0-0.5	.37	.43			
0280: Oupico-----	0-4	10-15	1.35-1.50	4.00-14.00	0.16-0.18	0.0-2.9	1.0-2.0	.32	.32	2	4L	86
	4-25	8-18	1.40-1.60	4.00-14.00	0.13-0.15	0.0-2.9	0.0-0.5	.24	.37			
	25-49	---	---	0.00-0.01	---	---	---	---	---			
	49-62	5-10	1.55-1.75	1.40-4.00	0.12-0.14	0.0-2.9	0.0-0.5	.32	.37			
Enko-----	0-14	10-18	1.35-1.50	4.00-14.00	0.16-0.18	0.0-2.9	1.0-2.0	.37	.37	4	5	56
	14-53	10-18	1.45-1.65	0.42-1.40	0.12-0.18	0.0-2.9	0.0-0.5	.37	.37			
	53-63	2-10	1.55-1.75	141.0-705.0	0.03-0.04	0.0-2.9	0.0-0.5	.05	.24			
0282: Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0310: Sonoma-----	0-6	27-35	1.35-1.50	1.40-4.00	0.19-0.21	3.0-5.9	1.0-2.0	.43	.43	5	4L	86
	6-48	20-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.24	.24			
	48-60	40-50	1.35-1.50	0.42-1.40	0.14-0.17	6.0-8.9	0.5-1.0	.28	.28			
Devilsgait-----	0-8	15-25	1.20-1.30	4.00-14.00	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	5	4L	86
	8-43	20-35	1.25-1.35	1.40-4.00	0.19-0.21	3.0-5.9	1.0-3.0	.32	.32			
	43-68	15-25	1.20-1.25	14.00-42.00	0.13-0.15	3.0-5.9	0.5-1.0	.28	.28			
Sonoma-----	0-6	20-27	1.35-1.50	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.43	.43	5	4L	86
	6-60	25-35	1.35-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.5-2.0	.37	.37			
0311: Sonoma-----	0-8	20-27	1.35-1.50	4.00-14.00	0.18-0.21	3.0-5.9	0.6-2.0	.43	.43	5	4L	86
	8-60	25-35	1.35-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.6-2.0	.37	.37			
Kelk-----	0-12	18-27	1.15-1.30	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.55	.55	5	6	48
	12-20	18-27	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.5-1.0	.49	.49			
	20-60	18-27	1.40-1.60	4.00-14.00	0.18-0.20	3.0-5.9	0.0-0.5	.49	.49			
0330: Kzin-----	0-3	15-25	1.25-1.45	4.00-14.00	0.09-0.11	0.0-2.9	2.0-3.0	.15	.49	1	6	48
	3-9	15-25	1.30-1.50	4.00-14.00	0.06-0.09	0.0-2.9	0.5-2.0	.15	.49			
	9-13	---	---	0.01-0.42	---	---	---	---	---			
Holborn-----	0-3	18-27	1.30-1.50	4.00-14.00	0.11-0.15	3.0-5.9	1.0-2.0	.17	.32	1	5	56
	3-7	18-30	1.25-1.45	1.40-4.00	0.11-0.17	3.0-5.9	0.5-1.0	.20	.37			
	7-17	---	---	0.01-0.42	---	---	---	---	---			
Kzin-----	0-3	15-25	1.25-1.45	4.00-14.00	0.09-0.11	0.0-2.9	2.0-3.0	.15	.49	1	6	48
	3-9	15-25	1.30-1.50	4.00-14.00	0.06-0.09	0.0-2.9	0.5-2.0	.15	.49			
	9-13	---	---	0.01-0.42	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0331: Kzin-----	0-3	15-25	1.25-1.45	4.00-14.00	0.09-0.11	0.0-2.9	2.0-3.0	.15	.49	1	6	48
	3-9	15-25	1.30-1.50	4.00-14.00	0.06-0.09	0.0-2.9	0.5-2.0	.15	.49			
	9-13	---	---	0.01-0.42	---	---	---	---	---			
Cobre-----	0-7	15-25	1.10-1.25	4.00-14.00	0.21-0.28	3.0-5.9	1.0-2.0	.43	.49	3	6	48
	7-15	15-25	1.15-1.30	4.00-14.00	0.19-0.28	3.0-5.9	0.5-1.0	.37	.43			
	15-34	8-18	1.15-1.30	4.00-14.00	0.17-0.25	0.0-2.9	0.0-0.5	.37	.43			
	34-38	---	---	0.01-0.42	---	---	---	---	---			
Jackpot-----	0-4	5-10	0.80-1.00	1.40-4.00	0.25-0.50	0.0-2.9	2.0-3.0	.20	.24	2	3	86
	4-11	5-10	0.80-1.00	1.40-4.00	0.25-0.50	0.0-2.9	0.5-2.0	.20	.24			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0333: Kzin-----	0-3	15-25	1.25-1.45	4.00-14.00	0.09-0.11	0.0-2.9	2.0-3.0	.15	.49	1	6	48
	3-8	15-25	1.30-1.50	4.00-14.00	0.06-0.09	0.0-2.9	0.5-2.0	.15	.49			
	8-12	---	---	0.01-0.42	---	---	---	---	---			
Holborn-----	0-3	18-27	1.30-1.50	4.00-14.00	0.11-0.15	3.0-5.9	1.0-2.0	.17	.32	1	5	56
	3-7	18-30	1.25-1.45	1.40-4.00	0.11-0.17	3.0-5.9	0.5-1.0	.20	.37			
	7-17	---	---	0.01-0.42	---	---	---	---	---			
Onkeyo-----	0-8	18-27	1.10-1.30	4.00-14.00	0.06-0.13	0.0-2.9	2.0-4.0	.10	.55	1	6	48
	8-17	25-35	1.20-1.40	1.40-4.00	0.04-0.10	0.0-2.9	0.5-1.0	.05	.43			
	17-21	---	---	0.00-0.01	---	---	---	---	---			
0340: Shuttle-----	0-6	8-18	1.30-1.45	4.00-14.00	0.18-0.20	0.0-2.9	0.5-1.0	.55	.64	3	4L	86
	6-19	8-18	1.30-1.50	4.00-14.00	0.15-0.19	0.0-2.9	0.0-0.8	.55	.64			
	19-45	5-15	1.50-1.70	1.40-4.00	0.14-0.18	0.0-2.9	0.0-0.5	.55	.64			
	45-60	---	---	0.00-0.01	---	---	---	---	---			
Hardhat-----	0-9	8-18	1.30-1.50	4.00-14.00	0.18-0.20	0.0-2.9	0.5-1.0	.43	.49	5	4L	86
	9-19	8-18	1.20-1.40	4.00-14.00	0.15-0.19	0.0-2.9	0.0-0.5	.43	.49			
	19-40	5-15	1.50-1.70	1.40-4.00	0.11-0.16	0.0-2.9	0.0-0.5	.32	.49			
	40-60	5-15	1.50-1.70	1.40-4.00	0.05-0.11	0.0-2.9	0.0-0.5	.17	.32			
Shuttle-----	0-5	8-15	1.30-1.45	4.00-14.00	0.18-0.20	0.0-2.9	0.5-1.0	.55	.64	5	4L	86
	5-15	8-18	1.30-1.50	4.00-14.00	0.15-0.19	0.0-2.9	0.0-0.8	.55	.64			
	15-42	5-15	1.50-1.70	1.40-4.00	0.13-0.17	0.0-2.9	0.0-0.5	.55	.64			
	42-61	5-15	1.40-1.60	4.00-14.00	0.07-0.13	0.0-2.9	0.0-0.3	.17	.32			
0350: Jericho-----	0-4	10-18	0.14-1.60	14.00-42.00	0.08-0.11	0.0-2.9	1.0-2.0	.15	.32	1	4	86
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.20			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	5-10	1.55-1.75	14.00-42.00	0.06-0.10	0.0-2.9	0.0-0.5	.10	.24			
Jericho-----	0-4	10-18	1.25-1.45	14.00-42.00	0.18-0.20	0.0-2.9	1.0-2.0	.37	.43	1	4L	86
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.20			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	5-10	1.55-1.75	14.00-42.00	0.06-0.10	0.0-2.9	0.0-0.5	.10	.24			
0351: Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
	27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43			
0355:												
Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0370:												
Toano-----	0-9	8-15	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.5-1.0	.64	.64	5	4L	86
	9-27	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
	27-60	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
Tulase-----	0-2	8-18	1.35-1.50	4.00-14.00	0.15-0.17	0.0-2.9	1.0-2.0	.43	.43	5	3	86
	2-60	8-18	1.30-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.5-2.0	.55	.55			
0371:												
Linoyer-----	0-9	12-18	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49	5	4L	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.15-0.18	0.0-2.9	0.5-1.0	.49	.49			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0373:												
Timpie-----	0-8	18-27	1.15-1.30	1.40-4.00	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43	5	4L	86
	8-19	18-27	1.15-1.30	1.40-4.00	0.15-0.17	0.0-2.9	0.0-0.5	.49	.55			
	19-60	18-27	1.15-1.30	1.40-4.00	0.04-0.10	0.0-2.9	0.0-0.5	.55	.55			
Piltown-----	0-10	10-18	1.50-1.70	4.00-14.00	0.13-0.15	0.0-2.9	0.0-1.0	.28	.28	5	3	86
	10-60	10-18	1.50-1.70	4.00-14.00	0.13-0.15	0.0-2.9	0.0-0.1	.28	.32			
Linoyer-----	0-9	12-18	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49	5	4L	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.15-0.18	0.0-2.9	0.5-1.0	.49	.49			
0374:												
Heist-----	0-4	8-18	1.40-1.60	14.00-42.00	0.13-0.15	0.0-2.9	0.6-1.0	.32	.37	5	3	86
	4-40	8-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.6-1.0	.24	.32			
	40-60	8-18	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.6	.24	.32			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Zerk-----	0-2	12-17	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.5-1.0	.17	.32	2	4	86
	2-16	12-17	1.35-1.55	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.17	.37			
	16-60	0-10	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.17			
0375:												
Toano-----	0-9	8-15	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.5-1.0	.64	.64	5	4L	86
	9-27	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
	27-60	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
Heist-----	0-4	8-18	1.40-1.60	14.00-42.00	0.13-0.15	0.0-2.9	0.6-1.0	.32	.37	5	3	86
	4-40	8-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.6-1.0	.24	.32			
	40-60	8-18	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.6	.24	.32			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0380: Cobre-----	0-7	15-25	1.10-1.25	4.00-14.00	0.21-0.28	3.0-5.9	1.0-2.0	.43	.49	3	6	48
	7-15	15-25	1.15-1.30	4.00-14.00	0.19-0.28	3.0-5.9	0.5-1.0	.37	.43			
	15-34	8-18	1.15-1.30	4.00-14.00	0.17-0.25	0.0-2.9	0.0-0.5	.37	.43			
	34-38	---	---	0.01-0.42	---	---	---	---	---			
Izar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	3-12	18-25	1.20-1.30	4.00-14.00	0.05-0.11	0.0-2.9	0.0-1.0	.10	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Jackpot-----	0-4	5-10	0.80-1.00	1.40-4.00	0.25-0.50	0.0-2.9	2.0-3.0	.20	.24	2	3	86
	4-11	5-10	0.80-1.00	1.40-4.00	0.25-0.50	0.0-2.9	0.5-2.0	.20	.24			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0381: Cobre-----	0-7	15-25	1.10-1.25	4.00-14.00	0.21-0.28	3.0-5.9	1.0-2.0	.43	.49	3	6	48
	7-15	15-25	1.15-1.30	4.00-14.00	0.19-0.28	3.0-5.9	0.5-1.0	.37	.43			
	15-34	8-18	1.15-1.30	4.00-14.00	0.17-0.25	0.0-2.9	0.0-0.5	.37	.43			
	34-38	---	---	0.01-0.42	---	---	---	---	---			
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
Jackpot-----	0-4	5-10	0.80-1.00	1.40-4.00	0.25-0.50	0.0-2.9	2.0-3.0	.20	.24	2	3	86
	4-11	5-10	0.80-1.00	1.40-4.00	0.25-0.50	0.0-2.9	0.5-2.0	.20	.24			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0382: Cobre-----	0-7	15-25	1.10-1.25	4.00-14.00	0.21-0.28	3.0-5.9	1.0-2.0	.43	.49	3	6	48
	7-15	15-25	1.15-1.30	4.00-14.00	0.19-0.28	3.0-5.9	0.5-1.0	.37	.43			
	15-34	8-18	1.15-1.30	4.00-14.00	0.17-0.25	0.0-2.9	0.0-0.5	.37	.43			
	34-38	---	---	0.01-0.42	---	---	---	---	---			
Enko-----	0-2	10-18	1.35-1.45	14.00-42.00	0.11-0.15	0.0-2.9	1.0-2.0	.43	.49	5	3	86
	2-14	10-18	1.40-1.50	14.00-42.00	0.12-0.17	0.0-2.9	0.5-1.0	.43	.49			
	14-32	10-18	1.65-1.70	0.42-1.40	0.10-0.13	0.0-2.9	0.0-0.5	.37	.43			
	32-60	10-18	1.40-1.50	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.43	.49			
0390: Hardol-----	0-13	18-27	1.10-1.30	4.00-14.00	0.07-0.13	0.0-2.9	2.0-3.0	.28	.64	5	6	48
	13-37	20-27	1.10-1.30	4.00-14.00	0.03-0.08	0.0-2.9	1.0-3.0	.10	.64			
	37-60	20-27	1.10-1.30	4.00-14.00	0.03-0.07	0.0-2.9	1.0-2.0	.10	.43			
Muiral-----	0-9	12-18	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	1.0-3.0	.28	.43	2	6	48
	9-33	12-18	1.40-1.60	4.00-14.00	0.08-0.12	0.0-2.9	0.5-1.0	.10	.49			
	33-37	---	---	0.00-0.01	---	---	---	---	---			
Rubble Land----	0-60	0-0	1.70-2.35	141.0-705.0	0.00-0.10	0.0-2.9	0.0-0.1	---	---	-	8	0
0392: Hardol-----	0-12	18-27	1.10-1.30	4.00-14.00	0.07-0.13	0.0-2.9	2.0-3.0	.28	.64	5	6	48
	12-33	20-27	1.10-1.30	4.00-14.00	0.03-0.08	0.0-2.9	1.0-3.0	.10	.64			
	33-60	20-27	1.10-1.30	4.00-14.00	0.03-0.07	0.0-2.9	1.0-2.0	.10	.43			
Muiral-----	0-9	12-18	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	1.0-3.0	.28	.43	2	6	48
	9-33	12-18	1.40-1.60	4.00-14.00	0.08-0.12	0.0-2.9	0.5-1.0	.10	.49			
	33-37	---	---	0.00-0.01	---	---	---	---	---			
Onkeyo-----	0-8	18-27	1.10-1.30	4.00-14.00	0.06-0.13	0.0-2.9	2.0-4.0	.10	.55	1	6	48
	8-17	25-35	1.20-1.40	1.40-4.00	0.04-0.10	0.0-2.9	0.5-1.0	.05	.43			
	17-21	---	---	0.00-0.01	---	---	---	---	---			
0400: Cleavage-----	0-7	15-25	1.15-1.35	4.00-14.00	0.12-0.14	0.0-2.9	1.0-3.0	.10	.32	1	7	38
	7-15	20-35	1.25-1.45	1.40-4.00	0.10-0.12	0.0-2.9	0.5-1.0	.10	.49			
	15-19	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink- swell potential Pct	Organic matter Pct	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
Cleavage-----	0-7	15-25	1.15-1.35	4.00-14.00	0.12-0.14	0.0-2.9	1.0-3.0	.10	.32	1	7	38
	7-15	20-35	1.25-1.45	1.40-4.00	0.10-0.12	0.0-2.9	0.5-1.0	.10	.49			
	15-19	---	---	0.00-0.01	---	---	---	---	---			
Sumine-----	0-9	10-20	1.20-1.40	4.00-14.00	0.09-0.12	0.0-2.9	2.0-4.0	.17	.43	2	7	38
	9-23	25-35	1.40-1.60	4.00-14.00	0.08-0.12	0.0-2.9	0.5-2.0	.15	.55			
	23-27	---	---	0.00-0.01	---	---	---	---	---			
410: Jericho-----	0-4	15-20	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.17	.37	1	6	48
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.24			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	2-4	1.55-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.15			
411: Jericho-----	0-4	15-20	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.17	.37	1	6	48
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.24			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	2-4	1.55-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.15			
Armespan-----	0-7	10-18	1.40-1.55	14.00-42.00	0.05-0.08	0.0-2.9	0.8-2.0	.10	.32	3	5	56
	7-21	12-18	1.35-1.50	4.00-14.00	0.09-0.12	0.0-2.9	0.0-0.5	.24	.37			
	21-32	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	32-60	5-10	1.45-1.60	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.17			
0420: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
0421: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
0422: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Zimbob-----	0-2	10-18	1.15-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.32	1	6	48
	2-11	10-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0424: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0426: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
0429: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Palinor-----	0-3	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	3-14	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	14-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
0430: Graley-----	0-7	10-20	1.30-1.50	4.00-14.00	0.08-0.14	0.0-2.9	1.0-2.0	.17	.43	1	7	38
	7-19	35-45	1.25-1.40	0.42-1.40	0.07-0.10	3.0-5.9	0.5-1.0	.15	.49			
	19-23	---	---	0.00-0.01	---	---	---	---	---			
Pioche-----	0-2	8-12	1.40-1.60	14.00-42.00	0.06-0.08	0.0-2.9	1.0-3.0	.05	.28	1	5	56
	2-12	35-50	1.40-1.55	0.42-1.40	0.10-0.12	3.0-5.9	1.0-2.0	.15	.37			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Cropper-----	0-7	16-20	1.25-1.45	4.00-14.00	0.09-0.11	0.0-2.9	1.0-4.0	.15	.55	1	7	38
	7-14	27-35	1.35-1.55	1.40-4.00	0.05-0.08	3.0-5.9	1.0-2.0	.05	.32			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
0431: Graley-----	0-7	10-20	1.30-1.50	4.00-14.00	0.11-0.15	0.0-2.9	1.0-2.0	.28	.49	1	6	48
	7-19	35-45	1.25-1.40	0.42-1.40	0.07-0.10	3.0-5.9	0.5-1.0	.15	.49			
	19-23	---	---	0.00-0.01	---	---	---	---	---			
Chen-----	0-3	20-27	1.10-1.25	4.00-14.00	0.08-0.12	0.0-2.9	2.0-3.0	.10	.32	1	7	38
	3-16	40-55	1.25-1.40	0.01-0.42	0.05-0.09	3.0-5.9	0.5-2.0	.10	.49			
	16-20	---	---	0.00-0.01	---	---	---	---	---			
McIvey-----	0-12	20-27	1.05-1.20	4.00-14.00	0.08-0.17	0.0-2.9	2.0-5.0	.17	.64	5	7	38
	12-18	30-40	1.25-1.45	1.40-4.00	0.12-0.17	3.0-5.9	1.0-2.0	.10	.43			
	18-60	40-50	1.25-1.40	0.01-0.42	0.07-0.10	3.0-5.9	0.5-1.0	.05	.37			
0440: Lomoin-----	0-9	8-15	1.35-1.55	14.00-42.00	0.07-0.09	0.0-2.9	0.5-1.0	.10	.32	1	5	56
	9-11	8-15	1.35-1.55	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.28			
	11-15	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Bijorja-----	0-4	8-18	1.40-1.60	14.00-42.00	0.07-0.09	0.0-2.9	0.5-1.0	.17	.32	3	4	86
	4-25	10-18	1.40-1.60	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.24			
	25-29	---	---	0.42-141.0	---	---	---	---	---			
Lomoinc-----	0-9	8-15	1.35-1.55	14.00-42.00	0.07-0.09	0.0-2.9	0.5-1.0	.10	.32	1	5	56
	9-11	8-15	1.35-1.55	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.28			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0460: Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
0470: Rozara-----	0-2	4-8	1.35-1.55	42.00-141.0	0.02-0.04	0.0-2.9	3.0-5.0	.05	.15	1	5	56
	2-11	14-18	1.40-1.60	14.00-42.00	0.06-0.11	0.0-2.9	2.0-3.0	.10	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Cucamungo-----	0-3	10-18	1.30-1.50	14.00-42.00	0.05-0.07	0.0-2.9	2.0-4.0	.05	.32	2	5	56
	3-14	20-30	1.20-1.40	4.00-14.00	0.07-0.09	0.0-2.9	1.0-2.0	.05	.37			
	14-19	---	---	0.01-0.42	---	---	---	---	---			
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
0471: Cucamungo-----	0-3	10-18	1.30-1.50	14.00-42.00	0.05-0.07	0.0-2.9	2.0-4.0	.05	.32	2	5	56
	3-14	20-30	1.20-1.40	4.00-14.00	0.07-0.09	0.0-2.9	1.0-2.0	.05	.37			
	14-19	---	---	0.01-0.42	---	---	---	---	---			
Hendap-----	0-7	6-12	1.45-1.65	14.00-42.00	0.04-0.06	0.0-2.9	2.0-3.0	.05	.20	1	5	56
	7-13	6-12	1.50-1.70	14.00-42.00	0.04-0.06	0.0-2.9	1.0-2.0	.05	.15			
	13-17	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
0480: Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
0485: Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Parisa-----	0-5	8-18	1.50-1.65	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	2	5	56
	5-36	8-18	1.50-1.70	4.00-14.00	0.04-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-55	---	---	0.00-0.01	---	---	---	---	---			
	55-60	0-8	1.60-1.75	42.00-141.0	0.03-0.11	0.0-2.9	0.0-0.5	.02	.15			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink-swell potential Pct	Organic matter Pct	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
Hunnton-----	0-8	10-25	1.20-1.25	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.49	.55	2	5	56
	8-12	20-30	1.50-1.55	1.40-4.00	0.15-0.21	3.0-5.9	0.5-2.0	.49	.49			
	12-21	45-55	1.20-1.25	0.42-1.40	0.10-0.16	6.0-8.9	0.5-1.0	.28	.37			
	21-40	---	---	0.00-0.01	---	---	---	---	---			
0490: Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
0492: Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
Peeko-----	0-4	10-27	1.35-1.55	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	4-10	18-27	1.40-1.60	4.00-14.00	0.12-0.15	3.0-5.9	0.5-1.0	.24	.43			
	10-30	---	---	0.00-0.01	---	---	---	---	---			
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
0494: Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Automal-----	0-8	10-20	1.35-1.55	4.00-14.00	0.08-0.10	0.0-2.9	1.0-2.0	.10	.32	5	4	86
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
0496: Sodhouse-----	0-8	10-18	1.40-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.28	.49	1	6	48
	8-16	10-18	1.40-1.55	4.00-14.00	0.13-0.16	0.0-2.9	0.0-0.5	.28	.49			
	16-60	---	---	0.00-0.01	---	---	---	---	---			
Sodhouse-----	0-8	10-18	1.40-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.28	.49	1	6	48
	8-16	10-18	1.40-1.55	4.00-14.00	0.13-0.16	0.0-2.9	0.0-0.5	.28	.49			
16-60	---	---	0.00-0.01	---	---	---	---	---				
Lincoyer-----	0-9	12-18	1.35-1.55	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.17	.32	5	4	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.14-0.20	0.0-2.9	0.5-1.0	.49	.49			
0497: Sodhouse-----	0-8	10-18	1.40-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.28	.49	1	6	48
	8-16	10-18	1.40-1.55	4.00-14.00	0.13-0.16	0.0-2.9	0.0-0.5	.28	.49			
	16-60	---	---	0.00-0.01	---	---	---	---	---			
Sodhouse-----	0-8	10-18	1.40-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.28	.49	1	6	48
	8-16	10-18	1.40-1.55	4.00-14.00	0.13-0.16	0.0-2.9	0.0-0.5	.28	.49			
	16-60	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink- swell potential Pct	Organic matter Pct	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
0501: Pharo-----	0-13	15-20	1.40-1.60	4.00-14.00	0.11-0.14	0.0-2.9	2.0-4.0	.20	.32	2	5	56
	13-36	10-20	1.50-1.65	4.00-14.00	0.05-0.09	0.0-2.9	0.5-1.0	.10	.28			
	36-60	2-8	1.60-1.75	141.0-705.0	0.01-0.02	0.0-2.9	0.0-0.5	.02	.10			
Izar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	3-12	18-25	1.20-1.30	4.00-14.00	0.05-0.11	0.0-2.9	0.0-1.0	.10	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0503: Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
0504: Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
0510: Adobe-----	0-7	18-27	1.25-1.45	4.00-14.00	0.08-0.14	0.0-2.9	2.0-4.0	.15	.49	1	7	38
	7-11	18-27	1.35-1.55	4.00-14.00	0.08-0.14	0.0-2.9	0.5-3.0	.15	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Hardzem-----	0-5	10-20	1.40-1.60	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	3	6	48
	5-28	20-30	1.40-1.60	0.42-1.40	0.05-0.11	0.0-2.9	1.0-2.0	.05	.43			
	28-55	---	---	0.01-0.42	---	---	---	---	---			
Haunchee-----	0-4	10-20	1.05-1.25	4.00-14.00	0.09-0.11	0.0-2.9	3.0-5.0	.15	.49	1	7	38
	4-11	10-20	1.05-1.25	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.55			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0511: Adobe-----	0-7	18-27	1.25-1.45	4.00-14.00	0.08-0.14	0.0-2.9	2.0-4.0	.15	.49	1	7	38
	7-11	18-27	1.35-1.55	4.00-14.00	0.08-0.14	0.0-2.9	0.5-3.0	.15	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Wardbay-----	0-14	18-27	1.05-1.20	4.00-14.00	0.06-0.12	0.0-2.9	2.0-4.0	.10	.37	3	6	48
	14-55	18-27	1.10-1.30	4.00-14.00	0.03-0.08	0.0-2.9	1.0-2.0	.05	.55			
	55-59	---	---	0.00-0.01	---	---	---	---	---			
Hardol-----	0-13	18-27	1.10-1.30	4.00-14.00	0.07-0.13	0.0-2.9	2.0-3.0	.28	.64	5	6	48
	13-37	20-27	1.10-1.30	4.00-14.00	0.03-0.08	0.0-2.9	1.0-3.0	.10	.64			
	37-60	20-27	1.10-1.30	4.00-14.00	0.03-0.07	0.0-2.9	1.0-2.0	.10	.43			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink-swell potential Pct	Organic matter Pct	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
0512: Adobe-----	0-7 7-11 11-15	18-27 18-27 ---	1.25-1.45 1.35-1.55 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.08-0.14 0.08-0.14 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 0.5-3.0 ---	.15 .15 ---	.49 .37 ---	1	6	48
Cavehill-----	0-12 12-30 30-34	18-27 18-27 ---	1.05-1.20 1.10-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.12-0.14 0.08-0.11 ---	0.0-2.9 0.0-2.9 ---	4.0-6.0 1.0-2.0 ---	.15 .17 ---	.43 .43 ---	2	6	48
Wardbay-----	0-14 14-55 55-59	18-27 18-27 ---	1.05-1.20 1.10-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.12 0.03-0.08 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.10 .05 ---	.37 .55 ---	3	6	48
0520: Haunchee-----	0-4 4-11 11-15	10-20 10-20 ---	1.05-1.25 1.05-1.25 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.09-0.11 0.09-0.11 ---	0.0-2.9 0.0-2.9 ---	3.0-5.0 1.0-2.0 ---	.15 .15 ---	.49 .55 ---	1	6	48
Muiral-----	0-9 9-33 33-37	12-18 12-18 ---	1.25-1.45 1.35-1.55 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.12-0.15 0.08-0.12 ---	0.0-2.9 0.0-2.9 ---	1.0-3.0 0.5-2.0 ---	.20 .10 ---	.37 .37 ---	2	6	48
Wardbay-----	0-14 14-55 55-59	18-27 18-27 ---	1.05-1.20 1.10-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.12 0.03-0.08 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.10 .05 ---	.37 .55 ---	3	6	48
0530: Wardbay-----	0-14 14-55 55-59	18-27 18-27 ---	1.05-1.20 1.10-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.12 0.03-0.08 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.10 .05 ---	.37 .55 ---	3	6	48
Adobe-----	0-7 7-11 11-15	18-27 18-27 ---	1.25-1.45 1.35-1.55 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.08-0.14 0.08-0.14 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 0.5-3.0 ---	.15 .15 ---	.49 .37 ---	1	6	48
Haunchee-----	0-4 4-11 11-15	10-20 10-20 ---	1.05-1.25 1.05-1.25 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.09-0.11 0.09-0.11 ---	0.0-2.9 0.0-2.9 ---	3.0-5.0 1.0-2.0 ---	.15 .15 ---	.49 .55 ---	1	6	48
0532: Onkeyo-----	0-8 8-17 17-21	18-27 25-35 ---	1.10-1.30 1.20-1.40 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.06-0.13 0.04-0.10 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 0.5-1.0 ---	.10 .05 ---	.55 .43 ---	1	6	48
Pookaloo-----	0-2 2-14 14-18	10-18 10-18 ---	1.20-1.35 1.35-1.50 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.11-0.13 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.5 ---	.20 .20 ---	.43 .55 ---	1	6	48
Tecomar-----	0-2 2-14 14-18	18-27 20-27 ---	1.30-1.45 1.30-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.03-0.06 0.04-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.8 ---	.17 .10 ---	.43 .64 ---	1	8	0
0540: Kunzler-----	0-16 16-48 48-60	12-20 10-18 10-18	1.15-1.35 1.35-1.60 1.30-1.60	4.00-14.00 1.40-4.00 4.00-14.00	0.14-0.17 0.11-0.13 0.09-0.17	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.0-0.5 0.0-0.5	.37 .24 .43	.37 .24 .43	5	4L	86
Sycomat-----	0-5 5-11 11-48 48-60	5-15 5-18 5-18 2-5	1.45-1.65 1.40-1.60 1.45-1.65 1.50-1.70	4.00-14.00 4.00-14.00 4.00-14.00 42.00-141.0	0.09-0.11 0.07-0.09 0.05-0.07 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5 0.0-0.5 0.0-0.5	.43 .28 .24 .02	.49 .43 .37 .20	4	3	86
0541: Kunzler-----	0-16 16-48 48-60	12-20 10-18 10-18	1.15-1.35 1.35-1.60 1.30-1.60	4.00-14.00 1.40-4.00 4.00-14.00	0.14-0.17 0.11-0.13 0.09-0.17	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.0-0.5 0.0-0.5	.37 .24 .43	.37 .24 .43	5	4L	86

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Sheffit-----	0-4 4-60	17-27 35-50	1.40-1.60 1.40-1.60	4.00-14.00 0.01-0.42	0.19-0.21 0.14-0.17	3.0-5.9 6.0-8.9	0.5-1.0 0.0-0.5	.55 .28	.55 .28	5	4L	86
0550: Urmafot-----	0-7 7-16 16-29 29-60	18-27 18-27 --- 5-15	1.25-1.45 1.35-1.55 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 14.00-42.00	0.10-0.15 0.10-0.15 --- 0.03-0.06	3.0-5.9 3.0-5.9 --- 0.0-2.9	2.0-4.0 1.0-2.0 --- 0.0-0.8	.20 .20 --- .02	.37 .37 --- .17	1	5	56
Bobs-----	0-8 8-13 13-17	10-20 10-20 ---	1.15-1.35 1.25-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.15-0.17 0.14-0.17 ---	0.0-2.9 0.0-2.9 ---	1.0-3.0 1.0-2.0 ---	.37 .37 ---	.43 .49 ---	1	5	56
Urmafot-----	0-5 5-9 9-29 29-60	18-27 18-27 --- 5-15	1.25-1.45 1.35-1.55 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 14.00-42.00	0.10-0.15 0.10-0.15 --- 0.03-0.06	3.0-5.9 3.0-5.9 --- 0.0-2.9	2.0-4.0 1.0-2.0 --- 0.0-0.8	.20 .20 --- .02	.37 .37 --- .17	1	5	56
0551: Urmafot-----	0-7 7-16 16-29 29-60	18-27 18-27 --- 5-15	1.25-1.45 1.35-1.55 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 14.00-42.00	0.10-0.15 0.10-0.15 --- 0.03-0.06	3.0-5.9 3.0-5.9 --- 0.0-2.9	2.0-4.0 1.0-2.0 --- 0.0-0.8	.20 .20 --- .02	.37 .37 --- .17	1	5	56
Bobs-----	0-8 8-13 13-17	10-20 10-20 ---	1.15-1.35 1.25-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.15-0.17 0.14-0.17 ---	0.0-2.9 0.0-2.9 ---	1.0-3.0 1.0-2.0 ---	.37 .37 ---	.43 .49 ---	1	5	56
552: Urmafot-----	0-7 7-16 16-29 29-60	18-27 18-27 --- 5-15	1.25-1.45 1.35-1.55 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 14.00-42.00	0.06-0.12 0.10-0.15 --- 0.03-0.06	0.0-2.9 3.0-5.9 --- 0.0-2.9	2.0-4.0 1.0-2.0 --- 0.0-0.8	.10 .20 --- .02	.32 .37 --- .17	1	6	48
Pharo-----	0-13 13-36 36-60	15-20 10-20 2-8	1.40-1.60 1.50-1.65 1.60-1.75	4.00-14.00 4.00-14.00 141.0-705.0	0.11-0.14 0.05-0.09 0.01-0.02	0.0-2.9 0.0-2.9 0.0-2.9	2.0-4.0 0.5-1.0 0.0-0.5	.20 .10 .02	.32 .28 .10	2	5	56
0554: Urmafot-----	0-7 7-16 16-29 29-60	18-27 18-27 --- 5-15	1.25-1.45 1.35-1.55 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 14.00-42.00	0.06-0.12 0.10-0.15 --- 0.03-0.06	0.0-2.9 3.0-5.9 --- 0.0-2.9	2.0-4.0 1.0-2.0 --- 0.0-0.8	.10 .20 --- .02	.32 .37 --- .17	1	6	48
Tecomar-----	0-2 2-14 14-18	18-27 20-27 ---	1.30-1.45 1.30-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.03-0.06 0.04-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.8 ---	.17 .10 ---	.43 .64 ---	1	8	0
Urmafot-----	0-7 7-9 9-29 29-60	18-27 18-27 --- 5-15	1.25-1.45 1.35-1.55 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 14.00-42.00	0.06-0.12 0.10-0.15 --- 0.03-0.06	0.0-2.9 3.0-5.9 --- 0.0-2.9	2.0-4.0 1.0-2.0 --- 0.0-0.8	.10 .20 --- .02	.32 .37 --- .17	1	6	48
0561: Palinor-----	0-8 8-16 16-34 34-60	10-18 10-18 --- 2-8	1.30-1.50 1.40-1.60 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 42.00-141.0	0.05-0.11 0.04-0.09 --- 0.03-0.08	0.0-2.9 0.0-2.9 --- 0.0-2.9	1.0-2.0 0.5-1.0 --- 0.0-0.5	.15 .10 --- .05	.55 .49 --- .24	1	6	48
Urmafot-----	0-7 7-16 16-29 29-60	18-27 18-27 --- 5-15	1.25-1.45 1.35-1.55 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 14.00-42.00	0.06-0.12 0.10-0.15 --- 0.03-0.06	0.0-2.9 3.0-5.9 --- 0.0-2.9	2.0-4.0 1.0-2.0 --- 0.0-0.8	.10 .20 --- .02	.32 .37 --- .17	1	6	48
Palinor-----	0-8 8-16 16-34 34-60	10-18 10-18 --- 2-8	1.30-1.50 1.40-1.60 --- 1.50-1.70	4.00-14.00 4.00-14.00 0.00-0.01 42.00-141.0	0.05-0.11 0.04-0.09 --- 0.03-0.08	0.0-2.9 0.0-2.9 --- 0.0-2.9	1.0-2.0 0.5-1.0 --- 0.0-0.5	.15 .10 --- .05	.55 .49 --- .24	1	6	48

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0562: Bobs-----	0-8 8-13 13-17	10-20 10-20 ---	1.15-1.35 1.25-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.08-0.11 0.14-0.17 ---	0.0-2.9 0.0-2.9 ---	1.0-3.0 1.0-2.0 ---	.15 .37 ---	.49 .49 ---	1	6	48
0563: Bobs-----	0-8 8-13 13-17	10-20 10-20 ---	1.15-1.35 1.25-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.15-0.17 0.14-0.17 ---	0.0-2.9 0.0-2.9 ---	1.0-3.0 1.0-2.0 ---	.37 .37 ---	.43 .49 ---	1	5	56
Fyrat-----	0-6 6-14 14-21 21-42 42-60	10-18 10-18 10-18 10-18 5-10	1.40-1.60 1.45-1.65 1.45-1.65 1.50-1.70 1.50-1.70	14.00-42.00 14.00-42.00 4.00-14.00 14.00-42.00 42.00-141.0	0.06-0.09 0.05-0.08 0.05-0.08 0.05-0.08 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.5-1.0 0.0-0.5 0.0-0.5	.05 .10 .15 .10 .05	.37 .37 .43 .37 .20	3	6	48
0575: Pookaloo-----	0-2 2-14 14-18	10-18 10-18 ---	1.20-1.35 1.35-1.50 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.11-0.13 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.5 ---	.20 .20 ---	.43 .55 ---	1	6	48
Cavehill-----	0-12 12-30 30-34	18-27 18-27 ---	1.05-1.20 1.10-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.12-0.14 0.08-0.11 ---	0.0-2.9 0.0-2.9 ---	4.0-6.0 1.0-2.0 ---	.15 .17 ---	.43 .43 ---	2	6	48
Rock Outcrop----	---	---	---	---	---	---	---	---	---	-	---	---
0576: Pookaloo-----	0-2 2-14 14-18	10-18 10-18 ---	1.20-1.35 1.35-1.50 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.11-0.13 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.5 ---	.20 .20 ---	.43 .55 ---	1	6	48
Tecomar-----	0-2 2-14 14-18	18-27 20-27 ---	1.30-1.45 1.30-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.03-0.06 0.04-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.8 ---	.17 .10 ---	.43 .64 ---	1	8	0
Onkeyo-----	0-8 8-17 17-21	18-27 25-35 ---	1.10-1.30 1.20-1.40 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.06-0.13 0.04-0.10 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 0.5-1.0 ---	.10 .05 ---	.55 .43 ---	1	6	48
0582: Sheffit-----	0-10 10-60	10-18 35-50	1.45-1.65 1.35-1.55	14.00-42.00 0.01-0.42	0.13-0.15 0.14-0.17	0.0-2.9 6.0-8.9	0.5-1.0 0.0-0.5	.43 .28	.43 .28	2	3	86
Sheffit-----	0-4 4-60	10-18 35-50	1.45-1.65 1.40-1.60	14.00-42.00 0.01-0.42	0.10-0.12 0.14-0.17	0.0-2.9 6.0-8.9	0.5-1.0 0.0-0.5	.24 .28	.24 .28	2	3	86
Katelana-----	0-5 5-28 28-32 32-62	14-24 18-25 18-25 27-40	1.30-1.45 1.40-1.55 1.40-1.55 1.40-1.55	4.00-14.00 4.00-14.00 4.00-14.00 1.40-4.00	0.19-0.21 0.19-0.21 0.19-0.21 0.19-0.21	3.0-5.9 3.0-5.9 3.0-5.9 6.0-8.9	1.0-2.0 0.0-0.5 0.0-0.5 0.0-0.5	.37 .49 .49 .32	.37 .49 .49 .32	5	4L	86
0590: Upatad-----	0-1 1-14 14-18	18-27 27-35 ---	1.15-1.35 1.25-1.45 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.08-0.14 0.08-0.14 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.15 .10 ---	.49 .49 ---	1	7	38
Segura-----	0-2 2-11 11-15	15-20 20-35 ---	1.35-1.55 1.40-1.60 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.08-0.12 0.14-0.16 ---	3.0-5.9 3.0-5.9 ---	1.0-3.0 1.0-2.0 ---	.10 .24 ---	.37 .43 ---	1	7	38
0600: Onkeyo-----	0-8 8-17 17-21	18-27 25-35 ---	1.10-1.30 1.20-1.40 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.06-0.13 0.04-0.10 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 0.5-1.0 ---	.10 .05 ---	.55 .43 ---	1	6	48

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Amene-----	0-12	20-27	1.05-1.25	4.00-14.00	0.10-0.15	0.0-2.9	2.0-4.0	.17	.49	1	6	48
	12-18	18-27	1.10-1.30	4.00-14.00	0.06-0.13	0.0-2.9	0.5-2.0	.15	.43			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
Pookaloo-----	0-2	10-18	1.20-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	2-14	10-18	1.35-1.50	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.20	.55			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
0610: Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
	27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43			
0614: Wintermute-----	0-3	12-18	1.40-1.60	4.00-14.00	0.10-0.15	0.0-2.9	0.0-0.6	.20	.43	3	4	86
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
	27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43			
Zerk-----	0-2	12-17	1.30-1.50	14.00-42.00	0.13-0.15	0.0-2.9	0.5-1.0	.20	.32	2	5	56
	2-16	12-17	1.35-1.55	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.17	.37			
	16-60	0-10	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.17			
0617: Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
Zerk-----	0-2	12-17	1.30-1.50	14.00-42.00	0.13-0.15	0.0-2.9	0.5-1.0	.20	.32	2	5	56
	2-16	12-17	1.35-1.55	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.17	.37			
	16-60	0-10	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.17			
Loray-----	0-12	10-20	1.35-1.55	4.00-14.00	0.10-0.15	0.0-2.9	0.0-1.0	.10	.43	2	5	56
	12-60	0-8	1.50-1.65	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
0620: Atlow-----	0-5	15-25	1.15-1.35	4.00-14.00	0.06-0.08	0.0-2.9	1.0-2.0	.17	.55	1	7	38
	5-18	27-35	1.30-1.50	1.40-4.00	0.08-0.10	0.0-2.9	0.0-0.5	.17	.43			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
Atlow-----	0-5	15-25	1.15-1.35	4.00-14.00	0.06-0.08	0.0-2.9	1.0-2.0	.17	.55	1	7	38
	5-18	27-35	1.30-1.50	1.40-4.00	0.08-0.10	0.0-2.9	0.0-0.5	.17	.43			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
0631: Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
	27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0632:												
Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43				
Zafod-----	0-7	5-15	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	1.0-2.0	.17	.20	3	4	86
	7-28	5-15	1.50-1.70	42.00-141.0	0.04-0.07	0.0-2.9	0.5-1.0	.10	.20			
	28-38	---	---	0.42-1.40	---	---	---	---	---			
38-60	2-8	1.60-1.80	42.00-141.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.10				
0634:												
Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43				
Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20				
Izar-----	0-3	18-25	1.15-1.25	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	3-12	18-25	1.20-1.30	4.00-14.00	0.05-0.11	0.0-2.9	0.0-1.0	.10	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
0636:												
Eastwell-----	0-5	10-15	1.10-1.25	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.49	2	7	38
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43				
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0650:												
Mizpah-----	0-9	15-20	1.50-1.70	14.00-42.00	0.11-0.13	0.0-2.9	0.5-1.0	.28	.28	3	3	86
	9-32	40-50	1.25-1.45	0.01-0.42	0.14-0.16	6.0-8.9	0.0-0.5	.37	.37			
	32-40	---	---	0.01-0.42	---	---	---	---	---			
Zerk-----	0-2	12-17	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.5-1.0	.17	.32	2	4	86
	2-16	12-17	1.35-1.55	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.17	.37			
	16-60	0-10	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.17			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55				
0671:												
Idway-----	0-4	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.24	.32	5	3	86
	4-12	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.0-0.5	.24	.32			
	12-27	8-18	1.55-1.70	4.00-14.00	0.10-0.14	0.0-2.9	0.0-0.5	.43	.43			
	27-60	2-8	1.60-1.75	42.00-141.0	0.04-0.05	0.0-2.9	0.0-0.5	.05	.15			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink- swell potential Pct	Organic matter Pct	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
Mysol-----	0-5	20-27	1.40-1.60	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.55	.64	4	4L	86
	5-17	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	17-31	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	31-60	2-8	1.55-1.75	14.00-42.00	0.05-0.09	0.0-2.9	0.0-0.5	.15	.24			
0672: Idway-----	0-4	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.24	.32	5	3	86
4-12	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.0-0.5	.24	.32				
12-27	8-18	1.55-1.70	4.00-14.00	0.10-0.14	0.0-2.9	0.0-0.5	.43	.43				
27-60	2-8	1.60-1.75	42.00-141.0	0.04-0.05	0.0-2.9	0.0-0.5	.05	.15				
James Canyon----	0-31	15-25	1.15-1.30	4.00-14.00	0.14-0.16	3.0-5.9	1.0-3.0	.32	.43	5	5	56
	31-60	20-27	1.30-1.45	4.00-14.00	0.14-0.16	3.0-5.9	0.5-1.0	.32	.55			
0680: Simon-----	0-10	10-20	1.20-1.40	4.00-14.00	0.17-0.19	0.0-2.9	2.0-4.0	.37	.43	4	5	56
10-15	18-35	1.25-1.45	1.40-4.00	0.17-0.20	3.0-5.9	0.5-2.0	.37	.49				
15-47	35-45	1.25-1.40	1.40-4.00	0.16-0.19	6.0-8.9	0.5-1.0	.20	.37				
47-60	20-35	1.35-1.55	4.00-14.00	0.08-0.10	0.0-2.9	0.0-0.5	.05	.32				
Graley-----	0-7	10-20	1.30-1.50	4.00-14.00	0.11-0.15	0.0-2.9	1.0-2.0	.28	.49	1	6	48
	7-19	35-45	1.25-1.40	0.42-1.40	0.07-0.10	3.0-5.9	0.5-1.0	.15	.49			
	19-23	---	---	0.00-0.01	---	---	---	---	---			
Chen-----	0-3	20-27	1.10-1.25	4.00-14.00	0.08-0.12	0.0-2.9	2.0-3.0	.10	.32	1	7	38
	3-16	40-55	1.25-1.40	0.01-0.42	0.05-0.09	3.0-5.9	0.5-2.0	.10	.49			
	16-20	---	---	0.00-0.01	---	---	---	---	---			
0691: Tarnach-----	0-3	18-27	1.35-1.55	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.43	1	6	48
3-12	18-27	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	0.5-1.0	.15	.43				
12-16	---	---	0.00-0.01	---	---	---	---	---				
Tarnach-----	0-3	18-27	1.35-1.55	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.43	1	6	48
	3-12	18-27	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	0.5-1.0	.15	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Wesfil-----	0-6	12-18	1.30-1.50	4.00-14.00	0.07-0.10	0.0-2.9	1.0-2.0	.10	.43	1	6	48
	6-10	---	---	0.00-0.01	---	---	---	---	---			
0692: Tarnach-----	0-3	18-27	1.35-1.55	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.43	1	6	48
3-12	18-27	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	0.5-1.0	.15	.43				
12-16	---	---	0.00-0.01	---	---	---	---	---				
Upatad-----	0-2	18-27	1.15-1.35	4.00-14.00	0.08-0.14	0.0-2.9	2.0-4.0	.15	.49	1	7	38
	2-14	27-35	1.25-1.45	1.40-4.00	0.08-0.14	0.0-2.9	1.0-2.0	.10	.49			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Wesfil-----	0-6	12-18	1.30-1.50	4.00-14.00	0.07-0.10	0.0-2.9	1.0-2.0	.10	.43	1	7	38
	6-10	---	---	0.00-0.01	---	---	---	---	---			
0700: Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55				
15-31	---	---	0.01-0.42	---	---	---	---	---				
31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20				
Tulase-----	0-2	8-18	1.35-1.50	4.00-14.00	0.15-0.17	0.0-2.9	1.0-2.0	.43	.43	5	3	86
	2-60	8-18	1.30-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.5-2.0	.55	.55			
Linoyer-----	0-9	12-18	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49	5	4L	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.15-0.18	0.0-2.9	0.5-1.0	.49	.49			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0720: Mysol-----	0-5	27-35	1.35-1.55	0.42-1.40	0.19-0.21	3.0-5.9	0.5-1.0	.55	.55	4	4L	86
	5-17	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	17-31	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	31-60	2-8	1.55-1.75	14.00-42.00	0.05-0.09	0.0-2.9	0.0-0.5	.15	.24			
Mysol-----	0-5	27-35	1.35-1.55	0.42-1.40	0.19-0.21	3.0-5.9	0.5-1.0	.55	.55	4	4L	86
	5-17	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	17-31	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	31-60	2-8	1.55-1.75	14.00-42.00	0.05-0.09	0.0-2.9	0.0-0.5	.15	.24			
0730: Idway-----	0-4	4-10	1.50-1.70	42.00-141.0	0.08-0.09	0.0-2.9	0.5-1.0	.15	.17	5	2	134
	4-12	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.0-0.5	.24	.32			
	12-27	8-18	1.55-1.70	4.00-14.00	0.10-0.14	0.0-2.9	0.0-0.5	.43	.43			
	27-60	2-8	1.60-1.75	42.00-141.0	0.04-0.05	0.0-2.9	0.0-0.5	.05	.15			
Kawich-----	0-2	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	5	1	250
	2-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
Mysol-----	0-5	20-27	1.40-1.60	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.55	.64	4	4L	86
	5-17	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	17-31	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	31-60	2-8	1.55-1.75	14.00-42.00	0.05-0.09	0.0-2.9	0.0-0.5	.15	.24			
0733: Idway-----	0-4	4-10	1.50-1.70	42.00-141.0	0.08-0.09	0.0-2.9	0.5-1.0	.15	.17	5	2	134
	4-12	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.0-0.5	.24	.32			
	12-27	8-18	1.55-1.70	4.00-14.00	0.10-0.14	0.0-2.9	0.0-0.5	.43	.43			
	27-60	2-8	1.60-1.75	42.00-141.0	0.04-0.05	0.0-2.9	0.0-0.5	.05	.15			
Idway-----	0-4	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.24	.32	5	3	86
	4-12	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.0-0.5	.24	.32			
	12-27	8-18	1.55-1.70	4.00-14.00	0.10-0.14	0.0-2.9	0.0-0.5	.43	.43			
	27-60	2-8	1.60-1.75	42.00-141.0	0.04-0.05	0.0-2.9	0.0-0.5	.05	.15			
Mysol-----	0-5	27-35	1.35-1.55	0.42-1.40	0.19-0.21	3.0-5.9	0.5-1.0	.55	.55	4	4L	86
	5-17	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	17-31	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	31-60	2-8	1.55-1.75	14.00-42.00	0.05-0.09	0.0-2.9	0.0-0.5	.15	.24			
0740: Upatad-----	0-1	18-27	1.25-1.45	4.00-14.00	0.06-0.09	0.0-2.9	2.0-4.0	.05	.43	1	8	0
	1-14	27-35	1.35-1.55	1.40-4.00	0.08-0.14	0.0-2.9	1.0-2.0	.10	.49			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Pioche-----	0-2	5-15	1.35-1.55	4.00-14.00	0.11-0.13	0.0-2.9	1.0-3.0	.15	.43	1	8	0
	2-12	35-50	1.40-1.55	0.42-1.40	0.10-0.12	3.0-5.9	1.0-2.0	.15	.37			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Tarnach-----	0-3	18-27	1.35-1.55	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.43	1	6	48
	3-12	18-27	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	0.5-1.0	.15	.43			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
0760: Playas-----	0-6	27-40	1.50-1.70	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37	-	4L	86
	6-60	35-70	1.60-1.80	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37			
0761: Umberland-----	0-5	40-50	1.20-1.35	0.01-0.42	0.15-0.19	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	5-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.0-0.5	.32	.32			
Umberland-----	0-15	40-45	1.20-1.35	1.40-4.00	0.15-0.21	6.0-8.9	0.5-1.0	.37	.37	5	4	86
	15-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.5-1.0	.32	.32			
0762: Umberland-----	0-5	40-50	1.20-1.35	0.01-0.42	0.15-0.19	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	5-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.0-0.5	.32	.32			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Playas-----	0-6	27-40	1.50-1.70	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37	-	4L	86
	6-60	35-70	1.60-1.80	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37			
0763:												
Equis-----	0-6	40-50	1.10-1.30	0.01-0.42	0.09-0.11	6.0-8.9	1.0-2.0	.28	.28	5	4	86
	6-24	40-50	1.05-1.25	0.01-0.42	0.14-0.17	6.0-8.9	0.5-1.0	.28	.28			
	24-41	30-45	1.25-1.45	0.01-0.42	0.14-0.17	6.0-8.9	0.0-0.5	.24	.24			
	41-60	20-45	1.30-1.50	0.42-1.40	0.15-0.21	6.0-8.9	0.0-0.5	.32	.32			
Umberland-----	0-15	40-45	1.20-1.35	1.40-4.00	0.15-0.21	6.0-8.9	0.5-1.0	.37	.37	5	4	86
	15-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.5-1.0	.32	.32			
Duffer-----	0-25	27-35	1.30-1.45	1.40-4.00	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43	5	4L	86
	25-60	20-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
0764:												
Umberland-----	0-15	35-40	1.25-1.40	1.40-4.00	0.17-0.21	6.0-8.9	0.5-1.0	.43	.43	5	4L	86
	15-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.5-1.0	.32	.32			
Rubylake-----	0-7	27-35	1.35-1.55	1.40-4.00	0.18-0.20	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	7-23	18-27	1.40-1.60	1.40-4.00	0.20-0.23	3.0-5.9	0.5-1.0	.55	.55			
	23-55	18-27	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	1.0-2.0	.55	.55			
	55-60	25-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Orupa-----	0-6	35-40	1.30-1.45	4.00-14.00	0.19-0.21	6.0-8.9	2.0-3.0	.43	.43	5	4L	86
	6-60	35-45	1.25-1.45	4.00-14.00	0.14-0.16	6.0-8.9	0.0-0.5	.43	.43			
0765:												
Umberland-----	0-5	40-50	1.20-1.35	0.01-0.42	0.15-0.19	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	5-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.0-0.5	.32	.32			
Umberland-----	0-15	40-45	1.20-1.35	1.40-4.00	0.15-0.21	6.0-8.9	0.5-1.0	.37	.37	5	4	86
	15-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.5-1.0	.32	.32			
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
0767:												
Umberland-----	0-15	40-45	1.20-1.35	1.40-4.00	0.15-0.21	6.0-8.9	0.5-1.0	.37	.37	5	4	86
	15-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.5-1.0	.32	.32			
Umberland-----	0-5	40-50	1.20-1.35	0.01-0.42	0.15-0.19	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	5-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.0-0.5	.32	.32			
Orupa-----	0-6	40-55	1.20-1.35	4.00-14.00	0.13-0.15	6.0-8.9	2.0-3.0	.49	.49	5	4L	86
	6-60	35-45	1.25-1.45	4.00-14.00	0.14-0.16	6.0-8.9	0.0-0.5	.43	.43			
0781:												
Mysol-----	0-5	27-35	1.35-1.55	0.42-1.40	0.19-0.21	3.0-5.9	0.5-1.0	.55	.55	4	4L	86
	5-17	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	17-31	20-35	1.40-1.60	0.42-1.40	0.19-0.21	3.0-5.9	0.0-0.5	.55	.55			
	31-60	2-8	1.55-1.75	14.00-42.00	0.05-0.09	0.0-2.9	0.0-0.5	.15	.24			
Benin-----	0-7	15-25	1.30-1.50	4.00-14.00	0.17-0.19	0.0-2.9	0.0-0.5	.49	.49	3	4L	86
	7-60	40-50	1.50-1.70	0.01-0.42	0.14-0.16	6.0-8.9	0.0-0.5	.37	.37			
Wendane-----	0-8	27-35	1.30-1.45	1.40-4.00	0.19-0.21	3.0-5.9	1.0-2.0	.49	.49	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
0800:												
Mazuma-----	0-15	10-14	1.40-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	15-60	5-15	1.45-1.65	14.00-42.00	0.10-0.14	0.0-2.9	0.0-0.5	.24	.28			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Toano-----	0-9	8-15	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.5-1.0	.64	.64	5	4L	86
	9-27	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
	27-60	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
0801:												
Mazuma-----	0-15	10-14	1.40-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	15-60	5-15	1.45-1.65	14.00-42.00	0.10-0.14	0.0-2.9	0.0-0.5	.24	.28			
Zerk-----	0-2	12-17	1.30-1.50	14.00-42.00	0.13-0.15	0.0-2.9	0.5-1.0	.20	.32	2	5	56
	2-16	12-17	1.35-1.55	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.17	.37			
	16-60	0-10	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.17			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0804:												
Mazuma-----	0-15	10-14	1.40-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	15-60	5-15	1.45-1.65	14.00-42.00	0.10-0.14	0.0-2.9	0.0-0.5	.24	.28			
Kawich-----	0-2	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	5	1	250
	2-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
Playas-----	0-6	27-40	1.50-1.70	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37	-	4L	86
	6-60	35-70	1.60-1.80	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37			
0807:												
Mazuma-----	0-15	10-14	1.40-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	15-60	5-15	1.45-1.65	14.00-42.00	0.10-0.14	0.0-2.9	0.0-0.5	.24	.28			
Kunzler-----	0-5	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	5-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
Zerk-----	0-2	12-17	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.5-1.0	.17	.32	2	4	86
	2-16	12-17	1.35-1.55	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.17	.37			
	16-60	0-10	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.17			
0823:												
Kunzler-----	0-16	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	16-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Blimo-----	0-8	12-18	1.35-1.55	4.00-14.00	0.12-0.16	0.0-2.9	1.0-2.0	.20	.37	5	5	56
	8-21	12-18	1.40-1.60	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.32			
	21-36	12-18	1.40-1.60	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.32			
	36-60	12-18	1.40-1.60	0.42-1.40	0.10-0.14	0.0-2.9	0.0-0.5	.28	.32			
0824:												
Kunzler-----	0-16	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	16-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
0827:												
Kunzler-----	0-16	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	16-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
James Canyon----	0-8	10-15	1.25-1.45	14.00-42.00	0.13-0.15	0.0-2.9	2.0-4.0	.37	.37	5	3	86
	8-33	18-27	1.30-1.50	4.00-14.00	0.12-0.15	3.0-5.9	2.0-4.0	.24	.43		3	86
	33-60	10-15	1.50-1.65	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.37	.37		3	86
James Canyon----	0-31	15-25	1.15-1.30	4.00-14.00	0.14-0.16	3.0-5.9	1.0-3.0	.32	.43		5	56
	31-60	20-27	1.30-1.45	4.00-14.00	0.14-0.16	3.0-5.9	0.5-1.0	.32	.55		5	56
0828: Kunzler-----	0-16	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	16-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
0830: Pharo-----	0-13	15-20	1.40-1.60	4.00-14.00	0.11-0.14	0.0-2.9	2.0-4.0	.20	.32	2	5	56
	13-36	10-20	1.50-1.65	4.00-14.00	0.05-0.09	0.0-2.9	0.5-1.0	.10	.28			
	36-60	2-8	1.60-1.75	141.0-705.0	0.01-0.02	0.0-2.9	0.0-0.5	.02	.10			
Kzin-----	0-3	15-25	1.25-1.45	4.00-14.00	0.09-0.11	0.0-2.9	2.0-3.0	.15	.49	1	6	48
	3-9	15-25	1.30-1.50	4.00-14.00	0.06-0.09	0.0-2.9	0.5-2.0	.15	.49			
	9-13	---	---	0.01-0.42	---	---	---	---	---			
Pharo-----	0-13	15-20	1.40-1.60	4.00-14.00	0.11-0.14	0.0-2.9	2.0-4.0	.20	.32	2	5	56
	13-36	10-20	1.50-1.65	4.00-14.00	0.05-0.09	0.0-2.9	0.5-1.0	.10	.28			
	36-60	2-8	1.60-1.75	141.0-705.0	0.01-0.02	0.0-2.9	0.0-0.5	.02	.10			
0842: Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
Timpie-----	0-8	18-27	1.15-1.30	1.40-4.00	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43	5	4L	86
	8-19	18-27	1.15-1.30	1.40-4.00	0.15-0.17	0.0-2.9	0.0-0.5	.49	.55			
	19-60	18-27	1.15-1.30	1.40-4.00	0.04-0.10	0.0-2.9	0.0-0.5	.55	.55			
0843: Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
Kawich-----	0-2	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	5	1	250
	2-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
0845: Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
Ragtown-----	0-5	20-27	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43	5	4L	86
	5-26	25-35	1.40-1.55	1.40-4.00	0.17-0.19	3.0-5.9	0.0-0.5	.32	.32			
	26-60	35-45	1.40-1.60	0.42-1.40	0.16-0.19	6.0-8.9	0.0-0.5	.32	.32			
Timpie-----	0-8	18-27	1.15-1.30	1.40-4.00	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43	5	4L	86
	8-19	18-27	1.15-1.30	1.40-4.00	0.15-0.17	0.0-2.9	0.0-0.5	.49	.55			
	19-60	18-27	1.15-1.30	1.40-4.00	0.04-0.10	0.0-2.9	0.0-0.5	.55	.55			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0847:												
Mazuma-----	0-15	10-14	1.40-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	15-60	5-15	1.45-1.65	14.00-42.00	0.10-0.14	0.0-2.9	0.0-0.5	.24	.28			
Blimo-----	0-7	12-18	1.25-1.45	1.40-4.00	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43	4	4L	86
	7-25	12-18	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.37			
	25-40	12-18	1.45-1.65	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.37			
	40-60	4-12	1.50-1.70	14.00-42.00	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
0850:												
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0851:												
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Zimbob-----	0-1	10-18	1.15-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.32	1	6	48
	1-6	10-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	0.5-1.0	.10	.32			
	6-10	---	---	0.00-0.01	---	---	---	---	---			
Tecomar-----	0-2	18-27	1.30-1.45	4.00-14.00	0.03-0.06	0.0-2.9	1.0-2.0	.17	.43	1	8	0
	2-14	20-27	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.0-0.8	.10	.64			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
0852:												
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			
Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
0854:												
Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
	8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49			
	16-34	---	---	0.00-0.01	---	---	---	---	---			
	34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
0856: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.24	.43	1	5	56
8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49				
16-34	---	---	0.00-0.01	---	---	---	---	---				
34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24				
Parisa-----	0-5	8-18	1.50-1.65	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	2	5	56
	5-36	8-18	1.50-1.70	4.00-14.00	0.04-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-60	---	---	0.00-0.01	---	---	---	---	---			
0857: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49				
16-34	---	---	0.00-0.01	---	---	---	---	---				
34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24				
Shabliss-----	0-2	10-18	1.40-1.55	14.00-42.00	0.09-0.12	0.0-2.9	1.0-2.0	.20	.43	2	4	86
	2-15	5-15	1.35-1.55	4.00-14.00	0.15-0.17	0.0-2.9	0.5-1.0	.55	.55			
	15-31	---	---	0.01-0.42	---	---	---	---	---			
	31-60	0-5	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Linoyer-----	0-9	12-18	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49	5	4L	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.15-0.18	0.0-2.9	0.5-1.0	.49	.49			
0858: Palinor-----	0-8	10-18	1.30-1.50	4.00-14.00	0.05-0.11	0.0-2.9	1.0-2.0	.15	.55	1	6	48
8-16	10-18	1.40-1.60	4.00-14.00	0.04-0.09	0.0-2.9	0.5-1.0	.10	.49				
16-34	---	---	0.00-0.01	---	---	---	---	---				
34-60	2-8	1.50-1.70	42.00-141.0	0.03-0.08	0.0-2.9	0.0-0.5	.05	.24				
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Linoyer-----	0-9	12-18	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49	5	4L	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.15-0.18	0.0-2.9	0.5-1.0	.49	.49			
0870: Theriot-----	0-7	8-15	1.40-1.60	4.00-14.00	0.10-0.13	0.0-2.9	0.5-1.0	.20	.43	1	5	56
7-18	5-14	1.45-1.60	4.00-14.00	0.04-0.16	0.0-2.9	0.5-1.0	.17	.37				
18-22	---	---	0.00-0.01	---	---	---	---	---				
Zimbob-----	0-2	10-18	1.15-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.32	1	6	48
	2-11	10-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0880: Duffer-----	0-4	20-27	1.35-1.50	4.00-14.00	0.19-0.21	3.0-5.9	0.5-1.0	.49	.49	5	4L	86
4-60	20-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49				
Duffer-----	0-25	27-35	1.30-1.45	1.40-4.00	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43	5	4L	86
	25-60	20-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Kolda-----	0-4	18-25	1.20-1.40	4.00-14.00	0.19-0.21	3.0-5.9	3.0-4.0	.55	.55	5	4L	86
	4-11	22-27	1.30-1.50	4.00-14.00	0.19-0.21	3.0-5.9	1.0-3.0	.55	.55			
	11-60	40-50	1.40-1.60	0.42-1.40	0.14-0.17	6.0-8.9	0.0-1.0	.24	.24			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0881: Duffer-----	0-4 4-60	20-27 20-35	1.35-1.50 1.35-1.55	4.00-14.00 1.40-4.00	0.19-0.21 0.19-0.21	3.0-5.9 3.0-5.9	0.5-1.0 0.0-0.5	.49 .49	.49 .49	5	4L	86
Kunzler-----	0-16 16-48 48-60	12-20 10-18 10-18	1.15-1.35 1.35-1.60 1.30-1.60	4.00-14.00 1.40-4.00 4.00-14.00	0.14-0.17 0.11-0.13 0.09-0.17	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.0-0.5 0.0-0.5	.37 .24 .43	.37 .24 .43	5	4L	86
0882: Duffer-----	0-25 25-60	27-35 20-35	1.30-1.45 1.35-1.55	1.40-4.00 1.40-4.00	0.19-0.21 0.19-0.21	3.0-5.9 3.0-5.9	1.0-3.0 0.0-0.5	.43 .43	.43 .43	5	4L	86
Kolda-----	0-4 4-11 11-60	18-25 22-27 40-50	1.20-1.40 1.30-1.50 1.40-1.60	4.00-14.00 4.00-14.00 0.42-1.40	0.19-0.21 0.19-0.21 0.14-0.17	3.0-5.9 3.0-5.9 6.0-8.9	3.0-4.0 1.0-3.0 0.0-1.0	.55 .55 .24	.55 .55 .24	5	4L	86
0894: Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	1.35-1.55 1.35-1.55 1.50-1.65	14.00-42.00 14.00-42.00 42.00-141.0	0.08-0.11 0.11-0.13 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.17 .17 .05	.32 .37 .17	2	4	86
Threesee-----	0-3 3-14 14-46 46-60	10-18 10-20 4-10 2-8	1.40-1.60 1.45-1.65 1.55-1.75 1.55-1.75	14.00-42.00 4.00-14.00 42.00-141.0 141.0-705.0	0.04-0.08 0.13-0.15 0.03-0.05 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5 0.0-0.5	.10 .24 .10 .05	.32 .37 .24 .10	2	5	56
Mazuma-----	0-15 15-60	10-14 5-15	1.40-1.55 1.45-1.65	4.00-14.00 14.00-42.00	0.19-0.21 0.10-0.14	0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5	.43 .24	.43 .28	5	4L	86
0900: Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	1.35-1.55 1.35-1.55 1.50-1.65	14.00-42.00 14.00-42.00 42.00-141.0	0.08-0.11 0.11-0.13 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.17 .17 .05	.32 .37 .17	2	4	86
Automal-----	0-8 8-49 49-60	15-25 10-20 5-15	1.30-1.50 1.40-1.60 1.50-1.70	4.00-14.00 0.42-1.40 0.42-1.40	0.14-0.18 0.04-0.06 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.0-1.0 0.0-0.1	.20 .02 .02	.55 .37 .10	5	5	56
Linoyer-----	0-9 9-60	12-18 12-18	1.30-1.50 1.30-1.50	4.00-14.00 4.00-14.00	0.16-0.18 0.15-0.18	0.0-2.9 0.0-2.9	0.5-1.0 0.5-1.0	.49 .49	.49 .49	5	4L	86
0910: Ragtown-----	0-16 16-60	27-35 35-60	1.40-1.60 1.35-1.55	1.40-4.00 0.42-1.40	0.15-0.17 0.14-0.16	3.0-5.9 6.0-8.9	0.0-0.5 0.0-0.5	.37 .32	.37 .32	5	4L	86
Ragtown-----	0-5 5-26 26-60	20-27 25-35 35-45	1.30-1.50 1.40-1.55 1.40-1.60	1.40-4.00 1.40-4.00 0.42-1.40	0.19-0.21 0.17-0.19 0.16-0.19	3.0-5.9 3.0-5.9 6.0-8.9	0.0-0.5 0.0-0.5 0.0-0.5	.43 .32 .32	.43 .32 .32	5	4L	86
0912: Katelana-----	0-5 5-28 28-32 32-60	14-24 18-25 18-25 27-40	1.30-1.45 1.40-1.55 1.40-1.55 1.40-1.55	4.00-14.00 4.00-14.00 4.00-14.00 1.40-4.00	0.19-0.21 0.19-0.21 0.19-0.21 0.19-0.21	3.0-5.9 3.0-5.9 3.0-5.9 6.0-8.9	1.0-2.0 0.0-0.5 0.0-0.5 0.0-0.5	.37 .49 .49 .32	.37 .49 .49 .32	5	4L	86
Katelana-----	0-5 5-28 28-32 32-60	14-24 18-25 18-25 27-40	1.30-1.45 1.40-1.55 1.40-1.55 1.40-1.55	4.00-14.00 4.00-14.00 4.00-14.00 1.40-4.00	0.19-0.21 0.19-0.21 0.19-0.21 0.19-0.21	3.0-5.9 3.0-5.9 3.0-5.9 6.0-8.9	1.0-2.0 0.0-0.5 0.0-0.5 0.0-0.5	.37 .49 .49 .32	.37 .49 .49 .32	5	4L	86
0914: Katelana-----	0-5 5-28 28-32 32-60	14-24 18-25 18-25 27-40	1.30-1.45 1.40-1.55 1.40-1.55 1.40-1.55	4.00-14.00 4.00-14.00 4.00-14.00 1.40-4.00	0.19-0.21 0.19-0.21 0.19-0.21 0.19-0.21	3.0-5.9 3.0-5.9 3.0-5.9 6.0-8.9	1.0-2.0 0.0-0.5 0.0-0.5 0.0-0.5	.37 .49 .49 .32	.37 .49 .49 .32	5	4L	86
Benin-----	0-7 7-60	15-25 40-50	1.30-1.50 1.50-1.70	4.00-14.00 0.01-0.42	0.17-0.19 0.14-0.16	0.0-2.9 6.0-8.9	0.0-0.5 0.0-0.5	.49 .37	.49 .37	3	4L	86

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Sheffit-----	0-4	10-18	1.45-1.65	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.24	.24	2	3	86
	4-60	35-50	1.40-1.60	0.01-0.42	0.14-0.17	6.0-8.9	0.0-0.5	.28	.28			
0917: Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
Sheffit-----	0-4	17-27	1.40-1.60	4.00-14.00	0.19-0.21	3.0-5.9	0.5-1.0	.55	.55	5	4L	86
	4-60	35-50	1.40-1.60	0.01-0.42	0.14-0.17	6.0-8.9	0.0-0.5	.28	.28			
Ragtown-----	0-16	27-35	1.40-1.60	1.40-4.00	0.15-0.17	3.0-5.9	0.0-0.5	.37	.37	5	4L	86
	16-60	35-60	1.35-1.55	0.42-1.40	0.14-0.16	6.0-8.9	0.0-0.5	.32	.32			
0918: Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
Zorravista-----	0-6	0-5	1.45-1.60	42.00-141.0	0.08-0.10	0.0-2.9	0.5-1.0	.20	.20	5	2	134
	6-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.17	.17			
Playas-----	0-6	27-40	1.50-1.70	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37	-	4L	86
	6-60	35-70	1.60-1.80	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37			
0930: Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Toano-----	0-9	8-15	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.5-1.0	.64	.64	5	4L	86
	9-27	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
	27-60	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
Loray-----	0-12	10-15	1.55-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.5-1.0	.15	.28	2	4	86
	12-60	0-8	1.50-1.65	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
0932: Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
0941: Sheffit-----	0-4	17-27	1.40-1.60	4.00-14.00	0.19-0.21	3.0-5.9	0.5-1.0	.55	.55	5	4L	86
	4-60	35-50	1.40-1.60	0.01-0.42	0.14-0.17	6.0-8.9	0.0-0.5	.28	.28			
Sheffit-----	0-10	10-18	1.45-1.65	14.00-42.00	0.13-0.15	0.0-2.9	0.5-1.0	.43	.43	2	3	86
	10-60	35-50	1.35-1.55	0.01-0.42	0.14-0.17	6.0-8.9	0.0-0.5	.28	.28			
Zorravista-----	0-6	0-5	1.45-1.60	42.00-141.0	0.08-0.10	0.0-2.9	0.5-1.0	.20	.20	5	2	134
	6-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.17	.17			
0943: Sheffit-----	0-4	17-27	1.40-1.60	4.00-14.00	0.19-0.21	3.0-5.9	0.5-1.0	.55	.55	5	4L	86
	4-60	35-50	1.40-1.60	0.01-0.42	0.14-0.17	6.0-8.9	0.0-0.5	.28	.28			
Umberland-----	0-15	40-45	1.20-1.35	1.40-4.00	0.15-0.21	6.0-8.9	0.5-1.0	.37	.37	5	4	86
	15-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.5-1.0	.32	.32			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
0960: Gravier-----	0-3 3-60	8-18 8-18	1.45-1.65 1.50-1.70	14.00-42.00 14.00-42.00	0.06-0.08 0.04-0.10	0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5	.10 .05	.24 .17	5	5	56
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	1.35-1.55 1.35-1.55 1.50-1.65	14.00-42.00 14.00-42.00 42.00-141.0	0.08-0.11 0.11-0.13 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.17 .17 .05	.32 .37 .17	2	4	86
0961: Gravier-----	0-4 4-50 50-60	2-8 8-18 0-5	1.30-1.50 1.30-1.50 1.40-1.60	42.00-141.0 14.00-42.00 42.00-141.0	0.08-0.10 0.04-0.10 0.02-0.04	0.0-2.9 0.0-2.9 0.0-2.9	0.0-0.5 0.0-0.5 0.0-0.5	.17 .05 .05	.24 .32 .24	4	2	134
Pilt-down-----	0-10 10-60	10-18 10-18	1.50-1.70 1.50-1.70	4.00-14.00 4.00-14.00	0.13-0.15 0.13-0.15	0.0-2.9 0.0-2.9	0.0-1.0 0.0-0.1	.28 .28	.28 .32	5	3	86
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	1.35-1.55 1.35-1.55 1.50-1.65	14.00-42.00 14.00-42.00 42.00-141.0	0.08-0.11 0.11-0.13 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5	.17 .17 .05	.32 .37 .17	2	4	86
0972: Zimbob-----	0-2 2-11 11-15	10-18 10-18 ---	1.15-1.35 1.20-1.40 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.06-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 1.0-2.0 ---	.10 .10 ---	.32 .37 ---	1	6	48
Zimbob-----	0-1 1-6 6-10	10-18 10-18 ---	1.15-1.35 1.20-1.40 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.06-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.5-1.0 ---	.10 .10 ---	.32 .32 ---	1	6	48
Pookaloo-----	0-2 2-14 14-18	10-18 10-18 ---	1.20-1.35 1.35-1.50 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.11-0.13 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.5 ---	.20 .20 ---	.43 .55 ---	1	6	48
0974: Zimbob-----	0-2 2-11 11-15	10-18 10-18 ---	1.15-1.35 1.20-1.40 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.06-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 1.0-2.0 ---	.10 .10 ---	.32 .37 ---	1	6	48
Tecomar-----	0-2 2-14 14-18	18-27 20-27 ---	1.30-1.45 1.30-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.03-0.06 0.04-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.8 ---	.17 .10 ---	.43 .64 ---	1	8	0
Pookaloo-----	0-2 2-14 14-18	10-18 10-18 ---	1.20-1.35 1.35-1.50 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.11-0.13 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.5 ---	.20 .20 ---	.43 .55 ---	1	6	48
0975: Zimbob-----	0-2 2-11 11-15	10-18 10-18 ---	1.15-1.35 1.20-1.40 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.06-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 1.0-2.0 ---	.10 .10 ---	.32 .37 ---	1	6	48
Tecomar-----	0-2 2-14 14-18	18-27 20-27 ---	1.30-1.45 1.30-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.03-0.06 0.04-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.8 ---	.17 .10 ---	.43 .64 ---	1	8	0
Tecomar-----	0-2 2-12 12-16	18-27 20-27 ---	1.30-1.45 1.30-1.45 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.03-0.06 0.04-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.8 ---	.17 .10 ---	.43 .64 ---	1	8	0
0980: Onkeyo-----	0-8 8-17 17-21	18-27 25-35 ---	1.10-1.30 1.20-1.40 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.06-0.13 0.04-0.10 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 0.5-1.0 ---	.10 .05 ---	.55 .43 ---	1	6	48
Pookaloo-----	0-2 2-14 14-18	10-18 10-18 ---	1.20-1.35 1.35-1.50 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.09 0.11-0.13 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.5 ---	.20 .20 ---	.43 .55 ---	1	6	48

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink- swell potential Pct	Organic matter Pct	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
Zimbob-----	0-2	10-18	1.15-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.32	1	6	48
	2-11	10-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
0990: Hyzen-----	0-3	8-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	2.0-5.0	.17	.43	1	8	0
	3-13	10-18	1.20-1.40	4.00-14.00	0.05-0.08	0.0-2.9	2.0-4.0	.15	.43			
	13-17	---	---	0.00-0.01	---	---	---	---	---			
Zimbob-----	0-1	10-18	1.15-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.10	.32	1	6	48
	1-6	10-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	0.5-1.0	.10	.32			
	6-10	---	---	0.00-0.01	---	---	---	---	---			
0991: Hyzen-----	0-3	8-18	1.20-1.40	4.00-14.00	0.06-0.09	0.0-2.9	2.0-5.0	.17	.43	1	8	0
	3-13	10-18	1.20-1.40	4.00-14.00	0.05-0.08	0.0-2.9	2.0-4.0	.15	.43			
	13-17	---	---	0.00-0.01	---	---	---	---	---			
Cavehill-----	0-12	18-27	1.05-1.20	4.00-14.00	0.12-0.14	0.0-2.9	4.0-6.0	.15	.43	2	6	48
	12-30	18-27	1.10-1.30	4.00-14.00	0.08-0.11	0.0-2.9	1.0-2.0	.17	.43			
	30-34	---	---	0.00-0.01	---	---	---	---	---			
Tecomar-----	0-2	18-27	1.30-1.45	4.00-14.00	0.03-0.06	0.0-2.9	1.0-2.0	.17	.43	1	8	0
	2-14	20-27	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.0-0.8	.10	.64			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
1000: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Zerk-----	0-2	12-17	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.5-1.0	.17	.32	2	4	86
	2-16	12-17	1.35-1.55	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.17	.37			
	16-60	0-10	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.17			
1001: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
	27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43			
1002: Threesee-----	0-3	4-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	1.0-2.0	.05	.15	2	4	86
	3-14	10-20	1.45-1.65	4.00-14.00	0.13-0.15	0.0-2.9	0.5-1.0	.24	.37			
	14-46	4-10	1.55-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.24			
	46-60	2-8	1.55-1.75	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.10			
Kunzler-----	0-5	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	5-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
Threesee-----	0-3	10-18	1.40-1.60	14.00-42.00	0.04-0.08	0.0-2.9	1.0-2.0	.10	.32	2	5	56
	3-14	10-20	1.45-1.65	4.00-14.00	0.13-0.15	0.0-2.9	0.5-1.0	.24	.37			
	14-46	4-10	1.55-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.24			
	46-60	2-8	1.55-1.75	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.10			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink-swell potential Pct	Organic matter Pct	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
1003: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Hundraw-----	0-5	8-18	1.40-1.55	14.00-42.00	0.10-0.13	0.0-2.9	0.5-1.0	.15	.28	1	4	86
	5-10	8-18	1.40-1.55	4.00-14.00	0.12-0.17	0.0-2.9	0.0-0.5	.20	.32			
	10-14	---	---	0.01-0.42	---	---	---	---	---			
Tulase-----	0-2	8-18	1.35-1.50	4.00-14.00	0.15-0.17	0.0-2.9	1.0-2.0	.43	.43	5	3	86
	2-60	8-18	1.30-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.5-2.0	.55	.55			
1004: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Parisa-----	0-5	8-18	1.50-1.65	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	2	5	56
	5-36	8-18	1.50-1.70	4.00-14.00	0.04-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-55	---	---	0.00-0.01	---	---	---	---	---			
	55-60	0-8	1.60-1.75	42.00-141.0	0.03-0.11	0.0-2.9	0.0-0.5	.02	.15			
Tulase-----	0-2	8-18	1.35-1.50	4.00-14.00	0.15-0.17	0.0-2.9	1.0-2.0	.43	.43	5	3	86
	2-60	8-18	1.30-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.5-2.0	.55	.55			
1005: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Zerk-----	0-2	12-17	1.35-1.55	14.00-42.00	0.09-0.12	0.0-2.9	0.0-0.8	.17	.28	2	4	86
	2-16	12-17	1.35-1.55	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.17	.37			
	16-60	0-10	1.50-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.17			
Parisa-----	0-5	8-18	1.50-1.65	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	2	5	56
	5-36	8-18	1.50-1.70	4.00-14.00	0.04-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-55	---	---	0.00-0.01	---	---	---	---	---			
	55-60	0-8	1.60-1.75	42.00-141.0	0.03-0.11	0.0-2.9	0.0-0.5	.02	.15			
1006: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Blimo-----	0-7	12-18	1.35-1.55	4.00-14.00	0.10-0.12	0.0-2.9	1.0-2.0	.28	.43	4	3	86
	7-25	12-18	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.37			
	25-40	12-18	1.45-1.65	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.37			
	40-60	4-12	1.50-1.70	14.00-42.00	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
1007: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Parisa-----	0-5	8-18	1.50-1.65	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	2	5	56
	5-36	8-18	1.50-1.70	4.00-14.00	0.04-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-55	---	---	0.00-0.01	---	---	---	---	---			
	55-60	0-8	1.60-1.75	42.00-141.0	0.03-0.11	0.0-2.9	0.0-0.5	.02	.15			
1009: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Tulase-----	0-2	8-18	1.35-1.50	4.00-14.00	0.15-0.17	0.0-2.9	1.0-2.0	.43	.43	5	3	86
	2-60	8-18	1.30-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.5-2.0	.55	.55			
Wintermute-----	0-3	8-18	1.35-1.55	4.00-14.00	0.12-0.18	0.0-2.9	0.0-0.8	.28	.55	3	5	56
	3-15	8-18	1.40-1.60	4.00-14.00	0.10-0.16	0.0-2.9	0.0-0.5	.28	.49			
	15-53	8-18	1.45-1.65	0.42-1.40	0.03-0.07	0.0-2.9	0.0-0.5	.05	.37			
	53-60	27-35	1.40-1.60	0.42-1.40	0.12-0.18	3.0-5.9	0.0-0.5	.17	.55			
1020: Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Eastwell-----	0-5	10-18	1.25-1.40	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.24	.43	2	4	86
	5-18	10-27	1.30-1.50	4.00-14.00	0.08-0.11	0.0-2.9	0.5-2.0	.24	.32			
	18-27	---	---	0.42-1.40	---	---	---	---	---			
	27-60	10-20	1.35-1.55	14.00-42.00	0.08-0.11	0.0-2.9	0.0-0.5	.24	.43			
Blimo-----	0-7	12-18	1.25-1.45	1.40-4.00	0.19-0.21	0.0-2.9	1.0-2.0	.43	.43	4	4L	86
	7-25	12-18	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.37			
	25-40	12-18	1.45-1.65	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.37			
	40-60	4-12	1.50-1.70	14.00-42.00	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
1023: Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
1030: Segura-----	0-2	20-27	1.35-1.55	4.00-14.00	0.10-0.12	3.0-5.9	1.0-3.0	.15	.37	1	7	38
	2-11	20-35	1.40-1.60	4.00-14.00	0.14-0.16	3.0-5.9	1.0-2.0	.24	.43			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Bullump-----	0-10	15-25	1.10-1.20	4.00-14.00	0.08-0.12	0.0-2.9	2.0-6.0	.15	.43	3	7	38
	10-49	25-35	1.35-1.45	1.40-4.00	0.09-0.14	0.0-2.9	0.5-3.0	.10	.32			
	49-53	---	---	0.00-0.01	---	---	---	---	---			
Hutchley-----	0-4	12-25	1.15-1.25	4.00-14.00	0.09-0.12	0.0-2.9	2.0-3.0	.10	.28	1	7	38
	4-13	28-35	1.40-1.50	1.40-4.00	0.09-0.11	3.0-5.9	1.0-2.0	.10	.43			
	13-17	---	---	0.00-0.01	---	---	---	---	---			
1040: Segura-----	0-2	15-20	1.35-1.55	4.00-14.00	0.08-0.12	3.0-5.9	1.0-3.0	.10	.37	1	7	38
	2-11	20-35	1.40-1.60	4.00-14.00	0.14-0.16	3.0-5.9	1.0-2.0	.24	.43			
	11-15	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Pioche-----	0-2	8-12	1.40-1.60	14.00-42.00	0.06-0.08	0.0-2.9	1.0-3.0	.05	.28	1	5	56
	2-12	35-50	1.40-1.55	0.42-1.40	0.10-0.12	3.0-5.9	1.0-2.0	.15	.37			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Chen-----	0-3	20-27	1.10-1.25	4.00-14.00	0.08-0.12	0.0-2.9	2.0-3.0	.10	.32	1	7	38
	3-16	40-55	1.25-1.40	0.01-0.42	0.05-0.09	3.0-5.9	0.5-2.0	.10	.49			
	16-20	---	---	0.00-0.01	---	---	---	---	---			
1061: Pioche-----	0-2	8-12	1.40-1.60	14.00-42.00	0.06-0.08	0.0-2.9	1.0-3.0	.05	.28	1	5	56
	2-12	35-50	1.40-1.55	0.42-1.40	0.10-0.12	3.0-5.9	1.0-2.0	.15	.37			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Cucamungo-----	0-3	10-18	1.30-1.50	14.00-42.00	0.05-0.07	0.0-2.9	2.0-4.0	.05	.32	2	7	38
	3-14	20-30	1.20-1.40	4.00-14.00	0.07-0.09	0.0-2.9	1.0-2.0	.05	.37			
	14-19	---	---	0.01-0.42	---	---	---	---	---			
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	---
1070: Zafod-----	0-7	5-15	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	1.0-2.0	.17	.20	3	4	86
	7-28	5-15	1.50-1.70	42.00-141.0	0.04-0.07	0.0-2.9	0.5-1.0	.10	.20			
	28-38	---	---	0.42-1.40	---	---	---	---	---			
	38-60	2-8	1.60-1.80	42.00-141.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.10			
Automal-----	0-8	10-20	1.35-1.55	4.00-14.00	0.08-0.10	0.0-2.9	1.0-2.0	.10	.32	5	4	86
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
1080: Cotant-----	0-2	27-40	1.10-1.30	1.40-4.00	0.13-0.16	3.0-5.9	1.0-2.0	.20	.37	2	5	56
	2-15	40-60	1.25-1.45	0.42-1.40	0.14-0.16	6.0-8.9	0.5-2.0	.24	.28			
	15-19	---	---	0.01-0.42	---	---	---	---	---			
Segura-----	0-2	15-20	1.35-1.55	4.00-14.00	0.08-0.12	3.0-5.9	1.0-3.0	.10	.37	1	7	38
	2-11	20-35	1.40-1.60	4.00-14.00	0.14-0.16	3.0-5.9	1.0-2.0	.24	.43			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
1111: Parisa-----	0-5	8-18	1.50-1.65	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	2	5	56
	5-36	8-18	1.50-1.70	4.00-14.00	0.04-0.12	0.0-2.9	0.5-1.0	.10	.37			
	36-55	---	---	0.00-0.01	---	---	---	---	---			
	55-60	0-8	1.60-1.75	42.00-141.0	0.03-0.11	0.0-2.9	0.0-0.5	.02	.15			
1120: Okan-----	0-8	8-18	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	1.0-2.0	.20	.24	5	3	86
	8-38	8-18	1.45-1.60	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.24			
	38-60	4-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
1150: Adobe-----	0-7	18-27	1.25-1.45	4.00-14.00	0.08-0.14	0.0-2.9	2.0-4.0	.15	.49	1	6	48
	7-11	18-27	1.35-1.55	4.00-14.00	0.08-0.14	0.0-2.9	0.5-3.0	.15	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Wardbay-----	0-14	18-27	1.05-1.20	4.00-14.00	0.06-0.12	0.0-2.9	2.0-4.0	.10	.37	3	6	48
	14-55	18-27	1.10-1.30	4.00-14.00	0.03-0.08	0.0-2.9	1.0-2.0	.05	.55			
	55-59	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink-swell potential Pct	Organic matter Pct	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
Haunchee-----	0-4	10-20	1.05-1.25	4.00-14.00	0.09-0.11	0.0-2.9	3.0-5.0	.15	.43	1	6	48
	4-11	10-20	1.05-1.25	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.55			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
1161: Pharo-----	0-13	15-20	1.40-1.60	4.00-14.00	0.11-0.14	0.0-2.9	2.0-4.0	.20	.32	2	5	56
	13-36	10-20	1.50-1.65	4.00-14.00	0.05-0.09	0.0-2.9	0.5-1.0	.10	.28			
	36-60	2-8	1.60-1.75	141.0-705.0	0.01-0.02	0.0-2.9	0.0-0.5	.02	.10			
Bobs-----	0-8	10-20	1.15-1.35	4.00-14.00	0.15-0.17	0.0-2.9	1.0-3.0	.37	.43	1	5	56
	8-13	10-20	1.25-1.45	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.49			
	13-17	---	---	0.00-0.01	---	---	---	---	---			
Pookaloo-----	0-2	10-18	1.20-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	2-14	10-18	1.35-1.50	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.20	.55			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
1171: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Automal-----	0-8	18-25	1.30-1.50	4.00-14.00	0.11-0.15	0.0-2.9	1.0-2.0	.20	.43	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
Gravier-----	0-3	8-18	1.45-1.65	14.00-42.00	0.06-0.08	0.0-2.9	0.0-0.5	.10	.24	5	5	56
	3-60	8-18	1.50-1.70	14.00-42.00	0.04-0.10	0.0-2.9	0.0-0.5	.05	.17			
1172: Pyrat-----	0-6	10-18	1.40-1.60	14.00-42.00	0.06-0.09	0.0-2.9	1.0-2.0	.05	.37	3	5	56
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.5-1.0	.15	.43			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Automal-----	0-8	10-18	1.40-1.55	14.00-42.00	0.06-0.09	0.0-2.9	1.0-2.0	.05	.32	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.5-1.0	.02	.37			
	49-60	5-15	1.50-1.70	14.00-42.00	0.03-0.05	0.0-2.9	0.0-0.5	.02	.20			
Automal-----	0-8	18-25	1.30-1.50	4.00-14.00	0.11-0.15	0.0-2.9	1.0-2.0	.20	.43	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
1173: Pyrat-----	0-6	8-18	1.40-1.60	4.00-14.00	0.13-0.15	0.0-2.9	1.0-2.0	.20	.37	3	5	56
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Automal-----	0-8	15-25	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	1.0-2.0	.20	.55	5	5	56
	8-49	10-20	1.40-1.60	0.42-1.40	0.04-0.06	0.0-2.9	0.0-1.0	.02	.37			
	49-60	5-15	1.50-1.70	0.42-1.40	0.03-0.05	0.0-2.9	0.0-0.1	.02	.10			
1174: Pyrat-----	0-6	12-20	1.40-1.60	14.00-42.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.28	3	4	86
	6-14	10-18	1.45-1.65	14.00-42.00	0.05-0.08	0.0-2.9	0.5-1.0	.10	.37			
	14-21	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.15	.49			
	21-42	10-18	1.50-1.70	14.00-42.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.37			
	42-60	5-10	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
Tosser-----	0-10	5-15	1.30-1.40	14.00-42.00	0.04-0.08	0.0-2.9	1.0-2.0	.10	.24	2	4L	86
	10-16	2-8	1.30-1.50	42.00-141.0	0.03-0.06	0.0-2.9	0.0-1.0	.05	.15			
	16-26	2-8	1.50-1.80	42.00-141.0	0.02-0.04	0.0-2.9	0.0-1.0	.02	.15			
	26-60	2-8	1.50-1.80	14.00-42.00	0.04-0.07	0.0-2.9	0.0-1.0	.10	.15			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink-swell potential Pct	Organic matter Pct	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
1180: Haunchee-----	0-4 4-11 11-15	10-20 10-20 ---	1.05-1.25 1.05-1.25 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.09-0.11 0.09-0.11 ---	0.0-2.9 0.0-2.9 ---	3.0-5.0 1.0-2.0 ---	.15 .15 ---	.43 .55 ---	1	6	48
Cavehill-----	0-12 12-30 30-34	18-27 18-27 ---	1.05-1.20 1.10-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.09-0.13 0.08-0.11 ---	0.0-2.9 0.0-2.9 ---	4.0-6.0 1.0-2.0 ---	.17 .17 ---	.43 .43 ---	2	5	56
1181: Haunchee-----	0-4 4-11 11-15	10-20 10-20 ---	1.05-1.25 1.05-1.25 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.09-0.11 0.09-0.11 ---	0.0-2.9 0.0-2.9 ---	3.0-5.0 1.0-2.0 ---	.15 .15 ---	.49 .55 ---	1	6	48
Halacan-----	0-5 5-12 12-16	10-18 10-18 ---	1.25-1.40 1.10-1.30 ---	14.00-42.00 14.00-42.00 0.00-0.01	0.08-0.11 0.04-0.09 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.5-2.0 ---	.17 .05 ---	.55 .43 ---	1	6	48
Wardbay-----	0-14 14-55 55-59	18-27 18-27 ---	1.05-1.20 1.10-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.12 0.03-0.08 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.10 .05 ---	.37 .55 ---	3	6	48
1190: Upatad-----	0-2 2-14 14-18	18-27 27-35 ---	1.15-1.35 1.25-1.45 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.08-0.14 0.08-0.14 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.15 .10 ---	.49 .49 ---	1	7	38
Atlow-----	0-5 5-18 18-22	15-25 27-35 ---	1.15-1.35 1.30-1.50 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.06-0.08 0.08-0.10 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 0.0-0.5 ---	.17 .17 ---	.55 .43 ---	1	7	38
Upatad-----	0-1 1-12 12-16	18-27 27-35 ---	1.25-1.45 1.35-1.55 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.06-0.09 0.08-0.14 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.05 .10 ---	.43 .49 ---	1	8	0
1191: Upatad-----	0-2 2-14 14-18	18-27 27-35 ---	1.15-1.35 1.25-1.45 ---	4.00-14.00 1.40-4.00 0.00-0.01	0.08-0.14 0.08-0.14 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.15 .10 ---	.49 .49 ---	1	7	38
Pioche-----	0-2 2-12 12-16	8-12 35-50 ---	1.40-1.60 1.40-1.55 ---	14.00-42.00 0.42-1.40 0.00-0.01	0.06-0.08 0.10-0.12 ---	0.0-2.9 3.0-5.9 ---	1.0-3.0 1.0-2.0 ---	.05 .15 ---	.28 .37 ---	1	5	56
Rock Outcrop---	---	---	---	---	---	---	---	---	---	-	---	---
1200: Hardol-----	0-13 13-37 37-60	18-27 20-27 20-27	1.10-1.30 1.10-1.30 1.10-1.30	4.00-14.00 4.00-14.00 4.00-14.00	0.07-0.13 0.03-0.08 0.03-0.07	0.0-2.9 0.0-2.9 0.0-2.9	2.0-3.0 1.0-3.0 1.0-2.0	.28 .10 .10	.64 .64 .43	5	6	48
Hardzem-----	0-5 5-28 28-55	10-20 20-30 ---	1.40-1.60 1.40-1.60 ---	4.00-14.00 0.42-1.40 0.01-0.42	0.10-0.15 0.05-0.11 ---	0.0-2.9 0.0-2.9 ---	1.0-2.0 1.0-2.0 ---	.20 .05 ---	.37 .43 ---	3	6	48
Rock Outcrop---	---	---	---	---	---	---	---	---	---	-	---	---
1201: Hardol-----	0-13 13-37 37-60	18-27 20-27 20-27	1.10-1.30 1.10-1.30 1.10-1.30	4.00-14.00 4.00-14.00 4.00-14.00	0.07-0.13 0.03-0.08 0.03-0.07	0.0-2.9 0.0-2.9 0.0-2.9	2.0-3.0 1.0-3.0 1.0-2.0	.28 .10 .10	.64 .64 .43	5	6	48
Rock Outcrop---	---	---	---	---	---	---	---	---	---	-	---	---
Wardbay-----	0-14 14-55 55-59	18-27 18-27 ---	1.05-1.20 1.10-1.30 ---	4.00-14.00 4.00-14.00 0.00-0.01	0.06-0.12 0.03-0.08 ---	0.0-2.9 0.0-2.9 ---	2.0-4.0 1.0-2.0 ---	.10 .05 ---	.37 .55 ---	3	6	48

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
1210: Blimo-----	0-8	12-18	1.35-1.55	4.00-14.00	0.12-0.16	0.0-2.9	1.0-2.0	.20	.37	5	5	56
	8-21	12-18	1.40-1.60	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.32			
	21-36	12-18	1.40-1.60	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.32			
	36-60	12-18	1.40-1.60	0.42-1.40	0.10-0.14	0.0-2.9	0.0-0.5	.28	.32			
Kunzler-----	0-5	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	5-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
Linoyer-----	0-9	12-18	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49	5	4L	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.15-0.18	0.0-2.9	0.5-1.0	.49	.49			
1213: Blimo-----	0-8	12-18	1.40-1.60	4.00-14.00	0.10-0.12	0.0-2.9	1.0-2.0	.28	.32	5	3	86
	8-21	12-18	1.40-1.60	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.32			
	21-36	12-18	1.40-1.60	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.32			
	36-60	12-18	1.40-1.60	0.42-1.40	0.10-0.14	0.0-2.9	0.0-0.5	.28	.32			
Threesee-----	0-3	10-20	1.40-1.60	4.00-14.00	0.13-0.14	0.0-2.9	1.0-2.0	.24	.43	2	5	56
	3-14	10-20	1.45-1.65	4.00-14.00	0.13-0.14	0.0-2.9	0.5-1.0	.20	.37			
	14-46	4-10	1.55-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.24			
	46-60	2-8	1.55-1.75	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.10			
1215: Blimo-----	0-8	12-18	1.40-1.60	4.00-14.00	0.10-0.12	0.0-2.9	1.0-2.0	.28	.32	5	3	86
	8-21	12-18	1.40-1.60	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.32			
	21-36	12-18	1.40-1.60	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.32			
	36-60	12-18	1.40-1.60	0.42-1.40	0.10-0.14	0.0-2.9	0.0-0.5	.28	.32			
Zorravista-----	0-6	0-5	1.45-1.60	42.00-141.0	0.08-0.10	0.0-2.9	0.5-1.0	.20	.20	5	2	134
	6-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.17	.17			
1216: Blimo-----	0-8	12-18	1.40-1.60	4.00-14.00	0.10-0.12	0.0-2.9	1.0-2.0	.28	.32	5	3	86
	8-21	12-18	1.40-1.60	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.32			
	21-36	12-18	1.40-1.60	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.32			
	36-60	12-18	1.40-1.60	0.42-1.40	0.10-0.14	0.0-2.9	0.0-0.5	.28	.32			
Idway-----	0-4	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.5-1.0	.24	.32	5	3	86
	4-12	8-18	1.50-1.70	14.00-42.00	0.10-0.12	0.0-2.9	0.0-0.5	.24	.32			
	12-27	8-18	1.55-1.70	4.00-14.00	0.10-0.14	0.0-2.9	0.0-0.5	.43	.43			
	27-60	2-8	1.60-1.75	42.00-141.0	0.04-0.05	0.0-2.9	0.0-0.5	.05	.15			
Mazuma-----	0-15	10-14	1.40-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	15-60	5-15	1.45-1.65	14.00-42.00	0.10-0.14	0.0-2.9	0.0-0.5	.24	.28			
1220: Onkeyo-----	0-8	18-27	1.10-1.30	4.00-14.00	0.06-0.13	0.0-2.9	2.0-4.0	.10	.55	1	6	48
	8-17	25-35	1.20-1.40	1.40-4.00	0.04-0.10	0.0-2.9	0.5-1.0	.05	.43			
	17-21	---	---	0.00-0.01	---	---	---	---	---			
Adobe-----	0-7	18-27	1.25-1.45	4.00-14.00	0.08-0.14	0.0-2.9	2.0-4.0	.15	.49	1	6	48
	7-11	18-27	1.35-1.55	4.00-14.00	0.08-0.14	0.0-2.9	0.5-3.0	.15	.37			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Pookaloo-----	0-2	10-18	1.20-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	2-14	10-18	1.35-1.50	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.20	.55			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
1230: Hardzem-----	0-5	10-20	1.40-1.60	4.00-14.00	0.08-0.11	0.0-2.9	1.0-2.0	.05	.43	3	7	38
	5-28	20-30	1.40-1.60	0.42-1.40	0.05-0.11	0.0-2.9	1.0-2.0	.05	.43			
	28-55	---	---	0.01-0.42	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Haunchee-----	0-4	10-20	1.05-1.25	4.00-14.00	0.09-0.11	0.0-2.9	3.0-5.0	.15	.49	1	6	48
	4-11	10-20	1.05-1.25	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.55			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Wardbay-----	0-14	18-27	1.05-1.20	4.00-14.00	0.06-0.12	0.0-2.9	2.0-4.0	.10	.37	3	6	48
	14-55	18-27	1.10-1.30	4.00-14.00	0.03-0.08	0.0-2.9	1.0-2.0	.05	.55			
	55-59	---	---	0.00-0.01	---	---	---	---	---			
1240:												
Benin-----	0-7	30-40	1.30-1.50	0.42-1.40	0.19-0.21	6.0-8.9	0.0-0.5	.37	.37	5	4L	86
	7-60	40-50	1.50-1.70	0.01-0.42	0.14-0.16	6.0-8.9	0.0-0.5	.37	.37			
Benin-----	0-7	15-25	1.30-1.50	4.00-14.00	0.17-0.19	0.0-2.9	0.0-0.5	.49	.49	3	4L	86
	7-60	40-50	1.50-1.70	0.01-0.42	0.14-0.16	6.0-8.9	0.0-0.5	.37	.37			
1241:												
Benin-----	0-7	30-40	1.30-1.50	0.42-1.40	0.19-0.21	6.0-8.9	0.0-0.5	.37	.37	5	4L	86
	7-60	40-50	1.50-1.70	0.01-0.42	0.14-0.16	6.0-8.9	0.0-0.5	.37	.37			
Playas-----	0-6	27-40	1.50-1.70	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37	-	4L	86
	6-60	35-70	1.60-1.80	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37			
Benin-----	0-7	15-25	1.30-1.50	4.00-14.00	0.17-0.19	0.0-2.9	0.0-0.5	.49	.49	3	4L	86
	7-60	40-50	1.50-1.70	0.01-0.42	0.14-0.16	6.0-8.9	0.0-0.5	.37	.37			
1250:												
Tecomar-----	0-2	18-27	1.30-1.45	4.00-14.00	0.03-0.06	0.0-2.9	1.0-2.0	.17	.43	1	8	0
	2-14	20-27	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.0-0.8	.10	.64			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Pookaloo-----	0-2	10-18	1.20-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	2-14	10-18	1.35-1.50	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.20	.55			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
1270:												
Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
Sheffit-----	0-4	17-27	1.40-1.60	4.00-14.00	0.19-0.21	3.0-5.9	0.5-1.0	.55	.55	5	4L	86
	4-60	35-50	1.40-1.60	0.01-0.42	0.14-0.17	6.0-8.9	0.0-0.5	.28	.28			
1271:												
Uvada-----	0-5	27-40	1.35-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.5-1.0	.55	.55	2	4L	86
	5-8	35-60	1.25-1.45	0.01-0.42	0.15-0.16	6.0-8.9	0.5-1.0	.37	.37			
	8-17	35-60	1.30-1.50	0.01-0.42	0.15-0.16	6.0-8.9	0.5-1.0	.37	.37			
	17-52	35-50	1.35-1.55	0.01-0.42	0.16-0.20	6.0-8.9	0.0-0.5	.37	.37			
	52-60	35-50	1.35-1.55	0.01-0.42	0.16-0.20	6.0-8.9	0.0-0.5	.37	.37			
Ragtown-----	0-16	27-35	1.40-1.60	1.40-4.00	0.15-0.17	3.0-5.9	0.0-0.5	.37	.37	5	4L	86
	16-60	35-60	1.35-1.55	0.42-1.40	0.14-0.16	6.0-8.9	0.0-0.5	.32	.32			
1272:												
Katelana-----	0-5	14-24	1.30-1.45	4.00-14.00	0.19-0.21	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	5-28	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	28-32	18-25	1.40-1.55	4.00-14.00	0.19-0.21	3.0-5.9	0.0-0.5	.49	.49			
	32-60	27-40	1.40-1.55	1.40-4.00	0.19-0.21	6.0-8.9	0.0-0.5	.32	.32			
Kawich-----	0-2	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	5	1	250
	2-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
1280:												
Sycomat-----	0-4	10-18	1.35-1.55	4.00-14.00	0.17-0.20	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	4-15	5-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	15-44	5-18	1.45-1.65	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	44-60	2-5	1.50-1.70	14.00-42.00	0.08-0.10	0.0-2.9	0.0-0.5	.20	.20			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth In	Clay Pct	Moist bulk density g/cc	Ksat um/sec	Available water capacity In/in	Shrink- swell potential Pct	Organic matter Pct	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
Kunzler-----	0-16	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	16-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
1281: Sycomat-----	0-4	10-18	1.35-1.55	4.00-14.00	0.17-0.20	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	4-15	5-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	15-44	5-18	1.45-1.65	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	44-60	2-5	1.50-1.70	14.00-42.00	0.08-0.10	0.0-2.9	0.0-0.5	.20	.20			
Mazuma-----	0-15	10-14	1.40-1.55	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43	5	4L	86
	15-60	5-15	1.45-1.65	14.00-42.00	0.10-0.14	0.0-2.9	0.0-0.5	.24	.28			
1290: Heist-----	0-4	8-18	1.40-1.60	14.00-42.00	0.13-0.15	0.0-2.9	0.6-1.0	.32	.37	5	3	86
	4-40	8-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.6-1.0	.24	.32			
	40-60	8-18	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.6	.24	.32			
Blimo-----	0-8	12-18	1.35-1.55	4.00-14.00	0.12-0.16	0.0-2.9	1.0-2.0	.20	.37	5	5	56
	8-21	12-18	1.40-1.60	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.32			
	21-36	12-18	1.40-1.60	0.42-1.40	0.07-0.09	0.0-2.9	0.0-0.5	.24	.32			
	36-60	12-18	1.40-1.60	0.42-1.40	0.10-0.14	0.0-2.9	0.0-0.5	.28	.32			
1300: Cavehill-----	0-12	18-27	1.05-1.20	4.00-14.00	0.08-0.12	0.0-2.9	4.0-6.0	.17	.64	2	6	48
	12-30	18-27	1.10-1.30	4.00-14.00	0.08-0.11	0.0-2.9	1.0-2.0	.17	.43			
	30-34	---	---	0.00-0.01	---	---	---	---	---			
Haunchee-----	0-4	10-20	1.05-1.25	4.00-14.00	0.09-0.11	0.0-2.9	3.0-5.0	.15	.49	1	6	48
	4-11	10-20	1.05-1.25	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.15	.55			
	11-15	---	---	0.00-0.01	---	---	---	---	---			
Hardzem-----	0-5	10-20	1.40-1.60	4.00-14.00	0.10-0.15	0.0-2.9	1.0-2.0	.20	.37	3	6	48
	5-28	20-30	1.40-1.60	0.42-1.40	0.05-0.11	0.0-2.9	1.0-2.0	.05	.43			
	28-55	---	---	0.01-0.42	---	---	---	---	---			
1360: Toba-----	0-4	20-27	1.30-1.50	4.00-14.00	0.16-0.18	3.0-5.9	2.0-4.0	.37	.37	5	4L	86
	4-14	27-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.28	.28			
	14-23	2-6	1.55-1.70	42.00-141.0	0.08-0.10	0.0-2.9	0.0-0.5	.20	.20			
	23-60	0-4	1.60-1.75	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
Appian-----	0-3	15-20	1.30-1.50	4.00-14.00	0.14-0.18	0.0-2.9	0.0-0.5	.37	.37	3	4L	86
	3-19	27-35	1.45-1.65	1.40-4.00	0.17-0.20	3.0-5.9	0.0-0.5	.32	.32			
	19-27	2-5	1.45-1.65	14.00-42.00	0.05-0.09	0.0-2.9	0.0-0.5	.17	.24			
	27-60	0-5	1.55-1.70	42.00-141.0	0.04-0.06	0.0-2.9	0.0-0.5	.10	.15			
1370: Orupa-----	0-6	35-40	1.30-1.45	4.00-14.00	0.19-0.21	6.0-8.9	2.0-3.0	.43	.43	5	4L	86
	6-60	35-45	1.25-1.45	4.00-14.00	0.14-0.16	6.0-8.9	0.0-0.5	.43	.43			
Playas-----	0-6	27-40	1.50-1.70	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37	-	4L	86
	6-60	35-70	1.60-1.80	0.01-0.42	0.02-0.04	6.0-8.9	0.0-0.1	.37	.37			
Boofuss-----	0-10	40-50	1.30-1.50	0.42-1.40	0.15-0.17	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	10-27	35-50	1.35-1.55	0.42-1.40	0.16-0.18	6.0-8.9	0.0-0.5	.37	.37			
	27-60	8-15	1.45-1.65	14.00-42.00	0.14-0.17	0.0-2.9	0.0-0.5	.32	.32			
1380: Hulderman-----	0-5	12-18	1.35-1.50	14.00-42.00	0.13-0.15	0.0-2.9	2.0-4.0	.49	.49	2	3	86
	5-18	20-25	1.30-1.50	4.00-14.00	0.16-0.18	3.0-5.9	3.0-6.0	.37	.37			
	18-27	4-8	1.50-1.70	42.00-141.0	0.09-0.10	0.0-2.9	0.5-1.0	.20	.20			
	27-60	0-4	1.60-1.75	141.0-705.0	0.04-0.07	0.0-2.9	0.0-0.5	.15	.20			
Toba-----	0-4	20-27	1.30-1.50	4.00-14.00	0.16-0.18	3.0-5.9	2.0-4.0	.37	.37	5	4L	86
	4-14	27-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.28	.28			
	14-23	2-6	1.55-1.70	42.00-141.0	0.08-0.10	0.0-2.9	0.0-0.5	.20	.20			
	23-60	0-4	1.60-1.75	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Benin-----	0-7 7-60	30-40 40-50	1.30-1.50 1.50-1.70	0.42-1.40 0.01-0.42	0.19-0.21 0.14-0.16	6.0-8.9 6.0-8.9	0.0-0.5 0.0-0.5	.37 .37	.37 .37	5	4L	86
1390: Wendane-----	0-8 8-42 42-60	15-25 15-25 27-35	1.35-1.50 1.30-1.50 1.30-1.50	4.00-14.00 4.00-14.00 1.40-4.00	0.15-0.21 0.19-0.21 0.19-0.21	0.0-2.9 0.0-2.9 3.0-5.9	1.0-2.0 0.0-0.5 0.0-0.5	.55 .43 .43	.55 .43 .43	5	4L	86
Mysol-----	0-5 5-17 17-31 31-60	27-35 20-35 20-35 2-8	1.35-1.55 1.40-1.60 1.40-1.60 1.55-1.75	0.42-1.40 0.42-1.40 0.42-1.40 14.00-42.00	0.19-0.21 0.19-0.21 0.19-0.21 0.05-0.09	3.0-5.9 3.0-5.9 3.0-5.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5 0.0-0.5	.55 .55 .55 .15	.55 .55 .55 .24	4	4L	86
Toba-----	0-4 4-14 14-23 23-60	20-27 27-35 2-6 0-4	1.30-1.50 1.35-1.55 1.55-1.70 1.60-1.75	4.00-14.00 1.40-4.00 42.00-141.0 141.0-705.0	0.16-0.18 0.19-0.21 0.08-0.10 0.05-0.07	3.0-5.9 3.0-5.9 0.0-2.9 0.0-2.9	2.0-4.0 0.5-1.0 0.0-0.5 0.0-0.5	.37 .28 .20 .15	.37 .28 .20 .15	5	4L	86
1410: Threesee-----	0-3 3-14 14-46 46-60	10-20 10-20 4-10 2-8	1.40-1.60 1.45-1.65 1.55-1.75 1.55-1.75	4.00-14.00 4.00-14.00 42.00-141.0 141.0-705.0	0.13-0.14 0.13-0.14 0.03-0.05 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5 0.0-0.5	.24 .20 .10 .05	.43 .37 .24 .10	2	5	56
Tosser-----	0-5 5-16 16-26 26-60	5-15 2-8 2-8 2-8	1.30-1.40 1.30-1.50 1.50-1.80 1.50-1.80	14.00-42.00 42.00-141.0 42.00-141.0 14.00-42.00	0.04-0.08 0.03-0.06 0.02-0.04 0.04-0.07	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.0-1.0 0.0-1.0 0.0-1.0	.10 .05 .02 .10	.24 .15 .15 .15	2	4L	86
1411: Threesee-----	0-3 3-14 14-46 46-60	10-18 10-20 4-10 2-8	1.40-1.60 1.45-1.65 1.55-1.75 1.55-1.75	14.00-42.00 4.00-14.00 42.00-141.0 141.0-705.0	0.04-0.08 0.13-0.15 0.03-0.05 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5 0.0-0.5	.10 .24 .10 .05	.32 .37 .24 .10	2	5	56
Linoyer-----	0-9 9-60	12-18 12-18	1.35-1.55 1.30-1.50	14.00-42.00 4.00-14.00	0.10-0.12 0.14-0.20	0.0-2.9 0.0-2.9	0.5-1.0 0.5-1.0	.17 .49	.32 .49	5	4	86
Okan-----	0-8 8-38 38-60	8-18 8-18 4-8	1.40-1.55 1.45-1.60 1.50-1.70	14.00-42.00 14.00-42.00 42.00-141.0	0.10-0.12 0.10-0.12 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5	.20 .20 .05	.24 .24 .24	5	3	86
1412: Threesee-----	0-3 3-14 14-46 46-60	10-18 10-20 4-10 2-8	1.40-1.60 1.45-1.65 1.55-1.75 1.55-1.75	14.00-42.00 4.00-14.00 42.00-141.0 141.0-705.0	0.04-0.08 0.13-0.15 0.03-0.05 0.03-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.5-1.0 0.0-0.5 0.0-0.5	.10 .24 .10 .05	.32 .37 .24 .10	2	5	56
Idway-----	0-4 4-12 12-27 27-60	4-10 8-18 8-18 2-8	1.50-1.70 1.50-1.70 1.55-1.70 1.60-1.75	42.00-141.0 14.00-42.00 4.00-14.00 42.00-141.0	0.08-0.09 0.10-0.12 0.10-0.14 0.04-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5 0.0-0.5	.15 .24 .43 .05	.17 .32 .43 .15	5	2	134
1413: Idway-----	0-4 4-12 12-27 27-60	8-18 8-18 8-18 2-8	1.50-1.70 1.50-1.70 1.55-1.70 1.60-1.75	14.00-42.00 14.00-42.00 4.00-14.00 42.00-141.0	0.10-0.12 0.10-0.12 0.10-0.14 0.04-0.05	0.0-2.9 0.0-2.9 0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5 0.0-0.5 0.0-0.5	.24 .24 .43 .05	.32 .32 .43 .15	5	3	86
Zorravista-----	0-6 6-60	0-5 0-5	1.45-1.60 1.50-1.65	42.00-141.0 141.0-705.0	0.08-0.10 0.05-0.07	0.0-2.9 0.0-2.9	0.5-1.0 0.0-0.5	.20 .17	.20 .17	5	2	134
Kunzler-----	0-16 16-48 48-60	12-20 10-18 10-18	1.15-1.35 1.35-1.60 1.30-1.60	4.00-14.00 1.40-4.00 4.00-14.00	0.14-0.17 0.11-0.13 0.09-0.17	0.0-2.9 0.0-2.9 0.0-2.9	1.0-2.0 0.0-0.5 0.0-0.5	.37 .24 .43	.37 .24 .43	5	4L	86

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
1414: Threesee-----	0-3	10-18	1.40-1.60	14.00-42.00	0.04-0.08	0.0-2.9	1.0-2.0	.10	.32	2	5	56
	3-14	10-20	1.45-1.65	4.00-14.00	0.13-0.15	0.0-2.9	0.5-1.0	.24	.37			
	14-46	4-10	1.55-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.24			
	46-60	2-8	1.55-1.75	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.10			
Shantown-----	0-2	2-8	1.45-1.65	42.00-141.0	0.06-0.08	0.0-2.9	1.0-3.0	.10	.24	4	3	86
	2-11	2-8	1.45-1.60	42.00-141.0	0.06-0.10	0.0-2.9	1.0-3.0	.17	.28			
	11-33	8-12	1.50-1.70	42.00-141.0	0.06-0.08	0.0-2.9	0.5-1.0	.15	.28			
	33-49	2-8	1.55-1.75	42.00-141.0	0.06-0.08	0.0-2.9	0.0-0.5	.10	.20			
	49-60	2-6	1.60-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.10			
Kunzler-----	0-16	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	16-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
1430: Pookaloo-----	0-2	10-18	1.20-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	2-14	10-18	1.35-1.50	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.20	.55			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Tecomar-----	0-2	18-27	1.30-1.45	4.00-14.00	0.03-0.06	0.0-2.9	1.0-2.0	.17	.43	1	8	0
	2-14	20-27	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.0-0.8	.10	.64			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop---	---	---	---	---	---	---	---	---	---	-	---	---
1440: Boofuss-----	0-10	40-50	1.30-1.50	0.42-1.40	0.15-0.17	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	10-27	35-50	1.35-1.55	0.42-1.40	0.16-0.18	6.0-8.9	0.0-0.5	.37	.37			
	27-60	8-15	1.45-1.65	14.00-42.00	0.14-0.17	0.0-2.9	0.0-0.5	.32	.32			
Boofuss-----	0-10	40-50	1.30-1.50	0.42-1.40	0.15-0.17	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	10-27	35-50	1.35-1.55	0.42-1.40	0.16-0.18	6.0-8.9	0.0-0.5	.37	.37			
	27-60	8-15	1.45-1.65	14.00-42.00	0.14-0.17	0.0-2.9	0.0-0.5	.32	.32			
Equis-----	0-6	40-50	1.25-1.45	0.01-0.42	0.09-0.11	6.0-8.9	1.0-2.0	.28	.28	5	4	86
	6-24	40-50	1.25-1.45	0.01-0.42	0.14-0.17	6.0-8.9	0.5-1.0	.28	.28			
	24-41	30-45	1.35-1.55	0.01-0.42	0.14-0.17	6.0-8.9	0.0-0.5	.24	.24			
	41-60	20-45	1.45-1.65	0.42-1.40	0.15-0.21	6.0-8.9	0.0-0.5	.32	.32			
1441: Boofuss-----	0-10	40-50	1.30-1.50	0.42-1.40	0.15-0.17	6.0-8.9	0.5-1.0	.32	.32	5	4	86
	10-27	35-50	1.35-1.55	0.42-1.40	0.16-0.18	6.0-8.9	0.0-0.5	.37	.37			
	27-60	8-15	1.45-1.65	14.00-42.00	0.14-0.17	0.0-2.9	0.0-0.5	.32	.32			
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Umberland-----	0-15	40-45	1.20-1.35	1.40-4.00	0.15-0.21	6.0-8.9	0.5-1.0	.37	.37	5	4	86
	15-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.5-1.0	.32	.32			
1450: Piltown-----	0-10	10-18	1.50-1.70	4.00-14.00	0.13-0.15	0.0-2.9	0.0-1.0	.28	.28	5	3	86
	10-60	10-18	1.50-1.70	4.00-14.00	0.13-0.15	0.0-2.9	0.0-0.1	.28	.32			
Kawich-----	0-2	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	5	1	250
	2-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
1460: Tosser-----	0-10	5-15	1.30-1.40	14.00-42.00	0.04-0.08	0.0-2.9	1.0-2.0	.10	.24	2	4L	86
	10-16	2-8	1.30-1.50	42.00-141.0	0.03-0.06	0.0-2.9	0.0-1.0	.05	.15			
	16-26	2-8	1.50-1.80	42.00-141.0	0.02-0.04	0.0-2.9	0.0-1.0	.02	.15			
	26-60	2-8	1.50-1.80	14.00-42.00	0.04-0.07	0.0-2.9	0.0-1.0	.10	.15			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Threesee-----	0-3	10-20	1.40-1.60	4.00-14.00	0.13-0.14	0.0-2.9	1.0-2.0	.24	.43	2	5	56
	3-14	10-20	1.45-1.65	4.00-14.00	0.13-0.14	0.0-2.9	0.5-1.0	.20	.37			
	14-46	4-10	1.55-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.24			
	46-60	2-8	1.55-1.75	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.10			
1471: Timpie-----	0-8	18-27	1.15-1.30	1.40-4.00	0.16-0.18	0.0-2.9	0.5-1.0	.43	.43	5	4L	86
	8-19	18-27	1.15-1.30	1.40-4.00	0.15-0.17	0.0-2.9	0.0-0.5	.49	.55			
	19-60	18-27	1.15-1.30	1.40-4.00	0.04-0.10	0.0-2.9	0.0-0.5	.55	.55			
Kunzler-----	0-5	12-20	1.15-1.35	4.00-14.00	0.14-0.17	0.0-2.9	1.0-2.0	.37	.37	5	4L	86
	5-48	10-18	1.35-1.60	1.40-4.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	48-60	10-18	1.30-1.60	4.00-14.00	0.09-0.17	0.0-2.9	0.0-0.5	.43	.43			
Threesee-----	0-3	10-18	1.40-1.60	14.00-42.00	0.04-0.08	0.0-2.9	1.0-2.0	.10	.32	2	5	56
	3-14	10-20	1.45-1.65	4.00-14.00	0.13-0.15	0.0-2.9	0.5-1.0	.24	.37			
	14-46	4-10	1.55-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.24			
	46-60	2-8	1.55-1.75	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.10			
1480: Tulase-----	0-2	8-18	1.25-1.40	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	2-60	8-18	1.30-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.5-2.0	.55	.55			
Linoyer-----	0-9	12-18	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	0.5-1.0	.49	.49	5	4L	86
	9-60	12-18	1.30-1.50	4.00-14.00	0.15-0.18	0.0-2.9	0.5-1.0	.49	.49			
1500: Tooele-----	0-5	5-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.5-1.0	.28	.32	5	3	86
	5-44	5-18	1.50-1.65	14.00-42.00	0.11-0.15	0.0-2.9	0.0-0.5	.28	.32			
	44-61	8-18	1.45-1.65	14.00-42.00	0.12-0.18	0.0-2.9	0.0-0.5	.32	.37			
Loray-----	0-12	10-15	1.55-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.5-1.0	.15	.28	2	4	86
	12-60	0-8	1.50-1.65	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
1510: Izamatc-----	0-3	8-18	1.50-1.70	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.15	.28	2	4	86
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Cliffdown-----	0-6	10-18	1.40-1.55	14.00-42.00	0.06-0.07	0.0-2.9	0.5-1.0	.10	.32	5	5	56
	6-60	8-18	1.40-1.60	14.00-42.00	0.03-0.06	0.0-2.9	0.5-1.0	.10	.32			
1520: Izamatc-----	0-3	8-18	1.50-1.70	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.15	.28	2	4	86
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Izamatc-----	0-3	8-18	1.50-1.70	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.15	.28	2	4	86
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Luning-----	0-3	3-10	1.50-1.65	42.00-141.0	0.06-0.08	0.0-2.9	0.0-0.5	.24	.24	5	2	134
	3-60	3-10	1.50-1.65	42.00-141.0	0.04-0.06	0.0-2.9	0.0-0.5	.15	.24			
1521: Izamatc-----	0-3	8-18	1.50-1.70	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.15	.28	2	4	86
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Izamatc-----	0-3	8-18	1.50-1.70	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.15	.28	2	4	86
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Theriot-----	0-7	8-15	1.40-1.60	4.00-14.00	0.09-0.13	0.0-2.9	0.5-1.0	.10	.37	1	8	0
	7-18	5-14	1.45-1.60	4.00-14.00	0.04-0.16	0.0-2.9	0.5-1.0	.17	.37			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
1522:												
Izamatch-----	0-3	8-18	1.50-1.70	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.5	.15	.28	2	4	86
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Smaug-----	0-13	8-12	1.35-1.50	14.00-42.00	0.12-0.14	0.0-2.9	0.0-0.5	.28	.32	5	3	86
	13-60	10-18	1.50-1.65	1.40-4.00	0.14-0.16	0.0-2.9	0.0-0.5	.64	.64			
Badland-----	0-6	35-70	1.60-1.80	0.01-0.42	0.05-0.07	6.0-8.9	0.0-0.1	.37	.37	5	5	56
	6-60	35-70	1.60-1.80	0.01-0.42	0.05-0.07	6.0-8.9	0.0-0.1	.37	.37			
1530:												
Theriot-----	0-7	8-15	1.40-1.60	4.00-14.00	0.09-0.13	0.0-2.9	0.5-1.0	.10	.37	1	8	0
	7-18	5-14	1.45-1.60	4.00-14.00	0.04-0.16	0.0-2.9	0.5-1.0	.17	.37			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
Theriot-----	0-7	8-15	1.40-1.60	4.00-14.00	0.10-0.13	0.0-2.9	0.5-1.0	.20	.43	1	5	56
	7-18	5-14	1.45-1.60	4.00-14.00	0.04-0.16	0.0-2.9	0.5-1.0	.17	.37			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
Izamatch-----	0-3	8-18	1.50-1.70	14.00-42.00	0.04-0.08	0.0-2.9	0.0-0.5	.10	.37	2	5	56
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
1531:												
Theriot-----	0-7	8-15	1.40-1.60	4.00-14.00	0.09-0.13	0.0-2.9	0.5-1.0	.10	.37	1	8	0
	7-18	5-14	1.45-1.60	4.00-14.00	0.04-0.16	0.0-2.9	0.5-1.0	.17	.37			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
Izamatch-----	0-3	8-16	1.45-1.65	14.00-42.00	0.05-0.09	0.0-2.9	0.0-0.5	.10	.32	2	5	56
	3-13	8-18	1.45-1.65	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.32			
	13-22	0-8	1.45-1.65	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.15			
	22-60	0-8	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.15			
Rock Outcrop---	---	---	---	---	---	---	---	---	---	---	---	---
1532:												
Theriot-----	0-3	10-15	1.50-1.70	4.00-14.00	0.09-0.11	0.0-2.9	0.5-1.0	.28	.37	1	4	86
	3-15	5-14	1.55-1.70	4.00-14.00	0.04-0.06	0.0-2.9	0.5-1.0	.17	.37			
	15-19	---	---	0.00-0.01	---	---	---	---	---			
Theriot-----	0-7	8-15	1.40-1.60	4.00-14.00	0.09-0.13	0.0-2.9	0.5-1.0	.10	.37	1	8	0
	7-18	5-14	1.45-1.60	4.00-14.00	0.04-0.16	0.0-2.9	0.5-1.0	.17	.37			
	18-22	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop---	---	---	---	---	---	---	---	---	---	---	---	---
1540:												
Kyler-----	0-3	7-18	1.45-1.60	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43	1	6	48
	3-7	7-18	1.45-1.65	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43			
	7-11	---	---	0.00-0.01	---	---	---	---	---			
Amtoft-----	0-2	15-25	1.35-1.55	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.37	1	6	48
	2-12	12-27	1.40-1.60	4.00-14.00	0.06-0.11	0.0-2.9	0.5-1.0	.10	.37			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Amtoft-----	0-4	15-25	1.30-1.50	4.00-14.00	0.13-0.17	0.0-2.9	1.0-2.0	.24	.43	1	5	56
	4-15	12-27	1.40-1.60	4.00-14.00	0.06-0.11	0.0-2.9	0.5-1.0	.10	.37			
	15-25	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
1541: Kyler-----	0-3	7-18	1.45-1.60	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43	1	6	48
	3-7	7-18	1.45-1.65	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43			
	7-11	---	---	0.00-0.01	---	---	---	---	---			
Kyler-----	0-3	7-18	1.45-1.60	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43	1	6	48
	3-7	7-18	1.45-1.65	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43			
	7-11	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop---	---	---	---	---	---	---	---	---	---	-	---	---
1542: Kyler-----	0-3	7-18	1.45-1.60	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43	1	6	48
	3-7	7-18	1.45-1.65	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43			
	7-11	---	---	0.00-0.01	---	---	---	---	---			
Amtoft-----	0-2	15-25	1.35-1.55	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.37	1	6	48
	2-12	12-27	1.40-1.60	4.00-14.00	0.06-0.11	0.0-2.9	0.5-1.0	.10	.37			
	12-16	---	---	0.00-0.01	---	---	---	---	---			
Jericho-----	0-4	15-20	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.17	.37	1	6	48
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.24			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	2-4	1.55-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.15			
1550: Jericho-----	0-4	15-20	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.17	.37	1	6	48
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.24			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	2-4	1.55-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.15			
Jericho-----	0-4	15-20	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.17	.37	1	6	48
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.24			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	2-4	1.55-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.15			
1560: Toano-----	0-9	8-15	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	0.5-1.0	.55	.55	5	3	86
	9-27	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
	27-60	8-15	1.40-1.60	4.00-14.00	0.14-0.16	0.0-2.9	0.0-0.5	.55	.55			
Timpie-----	0-8	5-20	1.15-1.30	1.40-4.00	0.15-0.17	0.0-2.9	0.5-1.0	.43	.49	5	3	86
	8-19	18-27	1.15-1.30	1.40-4.00	0.15-0.17	0.0-2.9	0.0-0.5	.49	.55			
	19-60	18-27	1.15-1.30	1.40-4.00	0.04-0.10	0.0-2.9	0.0-0.5	.55	.55			
1570: Jericho-----	0-4	15-20	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.17	.37	1	6	48
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.24			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	2-4	1.55-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.15			
Xeric Torriorthents--	0-5	8-15	1.60-1.75	14.00-42.00	0.08-0.10	0.0-2.9	0.5-1.0	.15	.28	5	4	86
	5-60	2-8	1.65-1.80	141.0-705.0	0.01-0.03	0.0-2.9	0.0-0.5	.05	.20			
1580: Armespan-----	0-7	10-18	1.40-1.55	14.00-42.00	0.05-0.08	0.0-2.9	0.8-2.0	.10	.32	3	5	56
	7-21	12-18	1.35-1.50	4.00-14.00	0.09-0.12	0.0-2.9	0.0-0.5	.24	.37			
	21-32	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	32-60	5-10	1.45-1.60	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.17			
Jericho-----	0-4	15-20	1.40-1.60	4.00-14.00	0.09-0.11	0.0-2.9	1.0-2.0	.17	.37	1	6	48
	4-14	10-18	1.50-1.70	14.00-42.00	0.06-0.08	0.0-2.9	0.5-1.0	.05	.24			
	14-28	---	---	0.00-0.01	---	---	---	---	---			
	28-60	2-4	1.55-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.15			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
1581: Armespan-----	0-7	10-18	1.40-1.55	14.00-42.00	0.05-0.08	0.0-2.9	0.8-2.0	.10	.32	3	5	56
	7-21	12-18	1.35-1.50	4.00-14.00	0.09-0.12	0.0-2.9	0.0-0.5	.24	.37			
	21-32	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	32-60	5-10	1.45-1.60	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.17			
Kyler-----	0-3	7-18	1.45-1.60	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43	1	6	48
	3-7	7-18	1.45-1.65	4.00-14.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.43			
	7-11	---	---	0.00-0.01	---	---	---	---	---			
Heist-----	0-4	8-18	1.40-1.60	14.00-42.00	0.13-0.15	0.0-2.9	0.6-1.0	.32	.37	5	3	86
	4-40	8-18	1.45-1.65	14.00-42.00	0.11-0.13	0.0-2.9	0.6-1.0	.24	.32			
	40-60	8-18	1.45-1.65	14.00-42.00	0.07-0.09	0.0-2.9	0.0-0.6	.24	.32			
1582: Armespan-----	0-7	10-18	1.40-1.55	14.00-42.00	0.05-0.08	0.0-2.9	0.8-2.0	.10	.32	3	5	56
	7-21	12-18	1.35-1.50	4.00-14.00	0.09-0.12	0.0-2.9	0.0-0.5	.24	.37			
	21-32	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	32-60	5-10	1.45-1.60	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.17			
Xeric Torriorthents--	0-5	8-15	1.60-1.75	14.00-42.00	0.08-0.10	0.0-2.9	0.5-1.0	.15	.28	5	4	86
	5-60	2-8	1.65-1.80	141.0-705.0	0.01-0.03	0.0-2.9	0.0-0.5	.05	.20			
1590: Luning-----	0-3	8-15	1.50-1.65	42.00-141.0	0.04-0.06	0.0-2.9	0.0-0.1	.17	.24	5	4	86
	3-60	3-10	1.50-1.65	42.00-141.0	0.04-0.06	0.0-2.9	0.0-0.1	.15	.24			
Luning-----	0-3	3-10	1.50-1.65	42.00-141.0	0.04-0.06	0.0-2.9	0.0-0.5	.17	.24	5	3	86
	3-60	3-10	1.50-1.65	42.00-141.0	0.04-0.06	0.0-2.9	0.0-0.5	.15	.24			
Loray-----	0-12	10-20	1.35-1.55	4.00-14.00	0.10-0.15	0.0-2.9	0.0-1.0	.10	.43	2	5	56
	12-60	0-8	1.50-1.65	141.0-705.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
1591: Luning-----	0-3	8-15	1.40-1.55	14.00-42.00	0.10-0.12	0.0-2.9	0.0-0.1	.28	.28	5	3	86
	3-60	3-10	1.50-1.65	42.00-141.0	0.04-0.06	0.0-2.9	0.0-0.1	.15	.24			
Izamatch-----	0-3	8-18	1.50-1.70	14.00-42.00	0.04-0.08	0.0-2.9	0.0-0.5	.10	.37	2	5	56
	3-13	8-18	1.50-1.70	14.00-42.00	0.04-0.09	0.0-2.9	0.0-0.5	.10	.24			
	13-22	0-8	1.55-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.20			
	22-60	0-8	1.60-1.75	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.05	.20			
Badland-----	0-6	35-70	1.60-1.80	0.01-0.42	0.05-0.07	6.0-8.9	0.0-0.1	.37	.37	5	5	56
	6-60	35-70	1.60-1.80	0.01-0.42	0.05-0.07	6.0-8.9	0.0-0.1	.37	.37			
1600: Eaglepass-----	0-1	8-18	1.45-1.65	14.00-42.00	0.04-0.08	0.0-2.9	0.0-0.5	.10	.37	1	5	56
	1-5	8-18	1.45-1.65	14.00-42.00	0.03-0.07	0.0-2.9	0.0-0.5	.10	.37			
	5-9	---	---	0.00-0.01	---	---	---	---	---			
Amtoft-----	0-4	15-25	1.35-1.55	4.00-14.00	0.07-0.11	0.0-2.9	1.0-2.0	.15	.37	1	6	48
	4-15	12-27	1.40-1.60	4.00-14.00	0.06-0.11	0.0-2.9	0.5-1.0	.10	.37			
	15-25	---	---	0.00-0.01	---	---	---	---	---			
1610: Xeric Torriorthents--	0-5	8-15	1.60-1.75	14.00-42.00	0.08-0.10	0.0-2.9	0.5-1.0	.15	.28	5	4	86
	5-60	2-8	1.65-1.80	141.0-705.0	0.01-0.03	0.0-2.9	0.0-0.5	.05	.20			
Armespan-----	0-7	10-18	1.40-1.55	14.00-42.00	0.05-0.08	0.0-2.9	0.8-2.0	.10	.32	3	5	56
	7-21	12-18	1.35-1.50	4.00-14.00	0.09-0.12	0.0-2.9	0.0-0.5	.24	.37			
	21-32	10-18	1.45-1.65	4.00-14.00	0.05-0.08	0.0-2.9	0.0-0.5	.10	.24			
	32-60	5-10	1.45-1.60	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.17			
Badland-----	0-60	0-0	---	0.01-0.42	0.00-0.00	---	---	---	---	-	8	0

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
1620: Kolda-----	0-10	10-20	0.70-0.90	14.00-42.00	0.20-0.23	0.0-2.9	10-15	.49	.49	5	8	0
	10-15	20-27	1.20-1.40	4.00-14.00	0.19-0.21	3.0-5.9	3.0-6.0	.55	.55			
	15-36	40-50	1.30-1.50	0.42-1.40	0.19-0.21	6.0-8.9	0.0-1.0	.28	.28			
	36-60	40-50	1.60-1.80	0.42-1.40	0.14-0.16	6.0-8.9	0.0-0.1	.28	.28			
Duffer-----	0-25	15-20	1.35-1.50	4.00-14.00	0.19-0.21	0.0-2.9	1.0-3.0	.37	.37	5	4L	86
	25-60	20-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Sonoma-----	0-6	27-35	1.35-1.50	1.40-4.00	0.19-0.21	3.0-5.9	1.0-2.0	.43	.43	5	4L	86
	6-48	20-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.24	.24			
	48-60	40-50	1.35-1.50	0.42-1.40	0.14-0.17	6.0-8.9	0.5-1.0	.28	.28			
1621: Kolda-----	0-6	10-20	0.70-0.90	14.00-42.00	0.20-0.23	0.0-2.9	10-15	.49	.49	5	4L	86
	6-15	20-27	1.20-1.40	4.00-14.00	0.19-0.21	3.0-5.9	3.0-6.0	.55	.55			
	15-36	40-50	1.30-1.50	0.42-1.40	0.19-0.21	6.0-8.9	0.5-1.0	.28	.28			
	36-60	40-50	1.60-1.80	0.42-1.40	0.14-0.16	6.0-8.9	0.0-0.5	.28	.28			
Rubylake-----	0-7	27-35	1.35-1.55	1.40-4.00	0.18-0.20	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	7-23	18-27	1.40-1.60	1.40-4.00	0.20-0.23	3.0-5.9	0.5-1.0	.55	.55			
	23-55	18-27	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	1.0-2.0	.55	.55			
	55-60	25-35	1.40-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Kolda-----	0-10	10-20	0.70-0.90	14.00-42.00	0.20-0.23	0.0-2.9	10-15	.49	.49	5	8	0
	10-15	20-27	1.20-1.40	4.00-14.00	0.19-0.21	3.0-5.9	3.0-6.0	.55	.55			
	15-36	40-50	1.30-1.50	0.42-1.40	0.19-0.21	6.0-8.9	0.0-1.0	.28	.28			
	36-60	40-50	1.60-1.80	0.42-1.40	0.14-0.16	6.0-8.9	0.0-0.1	.28	.28			
1622: Kolda-----	0-10	10-20	0.70-0.90	14.00-42.00	0.20-0.23	0.0-2.9	10-15	.49	.49	5	8	0
	10-15	20-27	1.20-1.40	4.00-14.00	0.19-0.21	3.0-5.9	3.0-6.0	.55	.55			
	15-36	40-50	1.30-1.50	0.42-1.40	0.19-0.21	6.0-8.9	0.0-1.0	.28	.28			
	36-60	40-50	1.60-1.80	0.42-1.40	0.14-0.16	6.0-8.9	0.0-0.1	.28	.28			
1623: Kolda-----	0-10	10-20	0.70-0.90	14.00-42.00	0.20-0.23	0.0-2.9	10-15	.49	.49	5	8	0
	10-15	20-27	1.20-1.40	4.00-14.00	0.19-0.21	3.0-5.9	3.0-6.0	.55	.55			
	15-36	40-50	1.30-1.50	0.42-1.40	0.19-0.21	6.0-8.9	0.0-1.0	.28	.28			
	36-60	40-50	1.60-1.80	0.42-1.40	0.14-0.16	6.0-8.9	0.0-0.1	.28	.28			
Water-----	---	---	---	---	---	---	---	---	---	-	---	---
1630: Pookaloo-----	0-2	10-18	1.20-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	2-14	10-18	1.35-1.50	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.20	.55			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Cavehill-----	0-12	18-27	1.05-1.20	4.00-14.00	0.12-0.14	0.0-2.9	4.0-6.0	.15	.43	2	6	48
	12-30	18-27	1.10-1.30	4.00-14.00	0.08-0.11	0.0-2.9	1.0-2.0	.17	.43			
	30-34	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop---	---	---	---	---	---	---	---	---	---	-	---	---
1631: Pookaloo-----	0-2	10-18	1.20-1.35	4.00-14.00	0.06-0.09	0.0-2.9	1.0-2.0	.20	.43	1	6	48
	2-14	10-18	1.35-1.50	4.00-14.00	0.11-0.13	0.0-2.9	0.0-0.5	.20	.55			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Tecomar-----	0-2	18-27	1.30-1.45	4.00-14.00	0.03-0.06	0.0-2.9	1.0-2.0	.17	.43	1	8	0
	2-14	20-27	1.30-1.45	4.00-14.00	0.04-0.09	0.0-2.9	0.0-0.8	.10	.64			
	14-18	---	---	0.00-0.01	---	---	---	---	---			
Wardbay-----	0-14	18-27	1.05-1.20	4.00-14.00	0.06-0.12	0.0-2.9	2.0-4.0	.10	.37	3	6	48
	14-55	18-27	1.10-1.30	4.00-14.00	0.03-0.08	0.0-2.9	1.0-2.0	.05	.55			
	55-59	---	---	0.00-0.01	---	---	---	---	---			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
1640: Jungo-----	0-3	16-24	1.30-1.45	4.00-14.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.49	5	7	38
	3-20	27-35	1.40-1.60	1.40-4.00	0.08-0.10	0.0-2.9	0.0-1.0	.10	.37			
	20-60	27-35	1.40-1.60	1.40-4.00	0.06-0.08	0.0-2.9	0.0-0.1	.05	.37			
Jungo-----	0-3	16-24	1.30-1.45	4.00-14.00	0.08-0.10	0.0-2.9	1.0-2.0	.15	.49	5	7	38
	3-20	27-35	1.40-1.60	1.40-4.00	0.08-0.10	0.0-2.9	0.0-1.0	.10	.37			
	20-60	27-35	1.40-1.60	1.40-4.00	0.06-0.08	0.0-2.9	0.0-0.1	.05	.37			
1650: Shantown-----	0-2	2-8	1.45-1.65	42.00-141.0	0.06-0.08	0.0-2.9	1.0-3.0	.10	.24	4	3	86
	2-11	2-8	1.45-1.60	42.00-141.0	0.06-0.10	0.0-2.9	1.0-3.0	.17	.28			
	11-33	8-12	1.50-1.70	42.00-141.0	0.06-0.08	0.0-2.9	0.5-1.0	.15	.28			
	33-49	2-8	1.55-1.75	42.00-141.0	0.06-0.08	0.0-2.9	0.0-0.5	.10	.20			
	49-60	2-6	1.60-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.10			
Zorravista-----	0-6	0-5	1.45-1.60	42.00-141.0	0.08-0.10	0.0-2.9	0.5-1.0	.20	.20	5	2	134
	6-60	0-5	1.50-1.65	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.17	.17			
1651: Shantown-----	0-2	2-8	1.45-1.65	42.00-141.0	0.06-0.08	0.0-2.9	1.0-3.0	.10	.24	4	3	86
	2-11	2-8	1.45-1.60	42.00-141.0	0.06-0.10	0.0-2.9	1.0-3.0	.17	.28			
	11-33	8-12	1.50-1.70	42.00-141.0	0.06-0.08	0.0-2.9	0.5-1.0	.15	.28			
	33-49	2-8	1.55-1.75	42.00-141.0	0.06-0.08	0.0-2.9	0.0-0.5	.10	.20			
	49-60	2-6	1.60-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.10			
Shantown-----	0-2	2-8	1.45-1.65	42.00-141.0	0.06-0.08	0.0-2.9	1.0-3.0	.10	.24	4	3	86
	2-11	2-8	1.45-1.60	42.00-141.0	0.06-0.10	0.0-2.9	1.0-3.0	.17	.28			
	11-33	8-12	1.50-1.70	42.00-141.0	0.06-0.08	0.0-2.9	0.5-1.0	.15	.28			
	33-49	2-8	1.55-1.75	42.00-141.0	0.06-0.08	0.0-2.9	0.0-0.5	.10	.20			
	49-60	2-6	1.60-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.10			
1660: Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.0-0.5	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Logan-----	0-10	10-20	1.20-1.35	4.00-14.00	0.19-0.21	0.0-2.9	2.0-4.0	.55	.55	5	4L	86
	10-40	25-35	1.20-1.40	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.43	.43			
	40-60	35-45	1.20-1.40	0.42-1.40	0.15-0.17	6.0-8.9	0.0-0.5	.37	.37			
1670: Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Logan-----	0-10	10-20	1.20-1.35	4.00-14.00	0.19-0.21	0.0-2.9	2.0-4.0	.55	.55	5	4L	86
	10-40	25-35	1.20-1.40	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.43	.43			
	40-60	35-45	1.20-1.40	0.42-1.40	0.15-0.17	6.0-8.9	0.0-0.5	.37	.37			
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.0-0.5	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
1680: Rubylake-----	0-7	27-35	1.35-1.55	1.40-4.00	0.18-0.20	3.0-5.9	1.0-2.0	.37	.37	5	4L	86
	7-23	18-27	1.40-1.60	1.40-4.00	0.20-0.23	3.0-5.9	0.5-1.0	.55	.55			
	23-55	18-27	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	1.0-2.0	.55	.55			
	55-60	25-35	1.40-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Kolda-----	0-6	10-20	0.70-0.90	14.00-42.00	0.20-0.23	0.0-2.9	10-15	.49	.49	5	4L	86
	6-15	20-27	1.20-1.40	4.00-14.00	0.19-0.21	3.0-5.9	3.0-6.0	.55	.55			
	15-36	40-50	1.30-1.50	0.42-1.40	0.19-0.21	6.0-8.9	0.5-1.0	.28	.28			
	36-60	40-50	1.60-1.80	0.42-1.40	0.14-0.16	6.0-8.9	0.0-0.5	.28	.28			
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
1681: Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
Logan-----	0-10	10-20	1.20-1.35	4.00-14.00	0.19-0.21	0.0-2.9	2.0-4.0	.55	.55	5	4L	86
	10-40	25-35	1.20-1.40	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.43	.43			
	40-60	35-45	1.20-1.40	0.42-1.40	0.15-0.17	6.0-8.9	0.0-0.5	.37	.37			
Umberland-----	0-15	18-27	1.30-1.45	4.00-14.00	0.16-0.19	3.0-5.9	0.5-1.0	.43	.43	5	4L	86
	15-60	35-50	1.30-1.45	0.01-0.42	0.15-0.21	6.0-8.9	0.5-1.0	.32	.32			
1690: Krenka-----	0-17	10-15	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	2.0-4.0	.32	.37	3	5	56
	17-31	20-25	1.40-1.60	4.00-14.00	0.08-0.11	0.0-2.9	1.0-3.0	.05	.37			
	31-60	20-25	1.45-1.65	4.00-14.00	0.06-0.10	0.0-2.9	0.5-1.0	.02	.37			
Secrepass-----	0-7	10-18	1.30-1.50	4.00-14.00	0.12-0.14	0.0-2.9	2.0-4.0	.20	.37	3	6	48
	7-14	30-40	1.30-1.50	1.40-4.00	0.10-0.14	0.0-2.9	1.0-2.0	.10	.28			
	14-31	40-60	1.20-1.40	0.01-0.42	0.06-0.10	3.0-5.9	0.5-1.0	.05	.20			
	31-60	10-18	1.50-1.70	14.00-42.00	0.03-0.05	0.0-2.9	0.0-0.5	.02	.17			
1700: Heechee-----	0-7	15-27	1.15-1.25	4.00-14.00	0.12-0.15	0.0-2.9	2.0-4.0	.20	.37	5	6	48
	7-20	25-35	1.30-1.45	1.40-4.00	0.06-0.14	0.0-2.9	1.0-2.0	.10	.49			
	20-60	10-25	1.40-1.60	42.00-141.0	0.02-0.06	0.0-2.9	0.0-1.0	.05	.49			
Rubicity-----	0-3	10-18	1.35-1.50	14.00-42.00	0.08-0.10	0.0-2.9	2.0-4.0	.10	.32	5	4	86
	3-42	10-18	1.45-1.60	14.00-42.00	0.08-0.10	0.0-2.9	2.0-4.0	.10	.32			
	42-60	10-18	1.50-1.70	14.00-42.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.32			
Heechee-----	0-7	10-20	1.45-1.60	4.00-14.00	0.06-0.10	0.0-2.9	2.0-4.0	.05	.28	5	8	0
	7-30	25-35	1.40-1.60	1.40-4.00	0.06-0.14	0.0-2.9	1.0-2.0	.10	.28			
	30-60	10-25	1.55-1.70	42.00-141.0	0.02-0.06	0.0-2.9	0.0-1.0	.05	.20			
1702: Heechee-----	0-7	15-27	1.15-1.25	4.00-14.00	0.12-0.15	0.0-2.9	2.0-4.0	.20	.37	5	6	48
	7-20	25-35	1.30-1.45	1.40-4.00	0.06-0.14	0.0-2.9	1.0-2.0	.10	.49			
	20-60	10-25	1.40-1.60	42.00-141.0	0.02-0.06	0.0-2.9	0.0-1.0	.05	.49			
McIvey-----	0-12	20-27	1.05-1.20	4.00-14.00	0.08-0.17	0.0-2.9	2.0-5.0	.17	.64	5	7	38
	12-18	30-40	1.25-1.45	1.40-4.00	0.12-0.17	3.0-5.9	1.0-2.0	.10	.43			
	18-60	40-50	1.25-1.40	0.01-0.42	0.07-0.10	3.0-5.9	0.5-1.0	.05	.37			
Rubicity-----	0-3	10-18	1.35-1.50	14.00-42.00	0.08-0.10	0.0-2.9	2.0-4.0	.10	.32	5	4	86
	3-42	10-18	1.45-1.60	14.00-42.00	0.08-0.10	0.0-2.9	2.0-4.0	.10	.32			
	42-60	10-18	1.50-1.70	14.00-42.00	0.08-0.11	0.0-2.9	0.5-1.0	.15	.32			
1710: James Canyon----	0-8	10-15	1.25-1.45	14.00-42.00	0.13-0.15	0.0-2.9	2.0-4.0	.37	.37	5	3	86
	8-33	18-27	1.30-1.50	4.00-14.00	0.12-0.15	3.0-5.9	2.0-4.0	.24	.43			
	33-60	10-15	1.50-1.65	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.37	.37			
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
1711: James Canyon----	0-8	10-15	1.25-1.45	14.00-42.00	0.13-0.15	0.0-2.9	2.0-4.0	.37	.37	5	3	86
	8-33	18-27	1.30-1.50	4.00-14.00	0.12-0.15	3.0-5.9	2.0-4.0	.24	.43			
	33-60	10-15	1.50-1.65	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.37	.37			
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.0-0.5	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
1720: Welch-----	0-8	15-20	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	8-60	27-35	1.30-1.50	1.40-4.00	0.16-0.21	3.0-5.9	0.5-4.0	.28	.32			
1721: Welch-----	0-8	15-20	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	8-60	27-35	1.30-1.50	1.40-4.00	0.16-0.21	3.0-5.9	0.5-4.0	.28	.32			
Welsum-----	0-11	20-27	1.15-1.35	4.00-14.00	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	3	4L	86
	11-25	27-35	1.20-1.40	1.40-4.00	0.19-0.21	3.0-5.9	1.0-4.0	.37	.43			
	25-60	0-5	1.40-1.60	141.0-705.0	0.03-0.05	0.0-2.9	0.0-2.0	.02	.20			
1722: Welch-----	0-5	15-20	1.25-1.40	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	4	5	56
	5-41	27-35	1.30-1.45	1.40-4.00	0.16-0.21	3.0-5.9	0.5-3.0	.28	.32			
	41-61	5-14	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.17			
Slipback-----	0-12	12-18	1.40-1.55	14.00-42.00	0.11-0.13	0.0-2.9	1.0-2.0	.28	.32	4	3	86
	12-39	25-35	1.40-1.60	1.40-4.00	0.10-0.13	3.0-5.9	0.5-1.0	.10	.17			
	39-55	12-18	1.50-1.65	14.00-42.00	0.08-0.10	0.0-2.9	0.0-0.5	.15	.24			
	55-60	2-8	1.50-1.70	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
Welch-----	0-5	15-20	1.25-1.40	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	4	5	56
	5-41	27-35	1.30-1.45	1.40-4.00	0.16-0.21	3.0-5.9	0.5-3.0	.28	.32			
	41-61	5-14	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.17			
1723: Welch-----	0-8	15-20	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	8-60	27-35	1.30-1.50	1.40-4.00	0.16-0.21	3.0-5.9	0.5-4.0	.28	.32			
Welch-----	0-8	15-20	1.25-1.40	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	8-60	27-35	1.30-1.45	1.40-4.00	0.16-0.21	3.0-5.9	0.5-4.0	.28	.32			
1730: McIvey-----	0-12	20-27	1.05-1.20	4.00-14.00	0.08-0.17	0.0-2.9	2.0-5.0	.17	.64	5	7	38
	12-18	30-40	1.25-1.45	1.40-4.00	0.12-0.17	3.0-5.9	1.0-2.0	.10	.43			
	18-60	40-50	1.25-1.40	0.01-0.42	0.07-0.10	3.0-5.9	0.5-1.0	.05	.37			
Donna-----	0-7	15-25	1.25-1.35	4.00-14.00	0.18-0.20	0.0-2.9	1.0-3.0	.37	.43	2	6	48
	7-33	60-70	1.15-1.35	0.01-0.42	0.14-0.16	6.0-8.9	0.5-2.0	.20	.24			
	33-43	---	---	0.00-0.01	---	---	---	---	---			
	43-60	15-25	1.45-1.65	14.00-42.00	0.04-0.06	0.0-2.9	0.0-0.5	.20	.32			
1731: McIvey-----	0-12	20-27	1.05-1.20	4.00-14.00	0.08-0.17	0.0-2.9	2.0-5.0	.17	.64	5	7	38
	12-18	30-40	1.25-1.45	1.40-4.00	0.12-0.17	3.0-5.9	1.0-2.0	.10	.43			
	18-60	40-50	1.25-1.40	0.01-0.42	0.07-0.10	3.0-5.9	0.5-1.0	.05	.37			
Chen-----	0-3	20-27	1.10-1.25	4.00-14.00	0.08-0.12	0.0-2.9	2.0-3.0	.10	.32	1	7	38
	3-16	40-55	1.25-1.40	0.01-0.42	0.05-0.09	3.0-5.9	0.5-2.0	.10	.49			
	16-20	---	---	0.00-0.01	---	---	---	---	---			
Donna-----	0-7	15-25	1.20-1.35	4.00-14.00	0.19-0.21	3.0-5.9	1.0-3.0	.43	.43	2	5	56
	7-33	60-70	1.15-1.35	0.01-0.42	0.14-0.16	6.0-8.9	0.5-2.0	.20	.24			
	33-43	---	---	0.00-0.01	---	---	---	---	---			
	43-60	15-25	1.45-1.65	14.00-42.00	0.04-0.06	0.0-2.9	0.0-0.5	.20	.32			
1732: McIvey-----	0-12	20-27	1.05-1.20	4.00-14.00	0.12-0.15	3.0-5.9	2.0-5.0	.15	.43	5	7	38
	12-18	30-40	1.25-1.45	1.40-4.00	0.12-0.17	3.0-5.9	0.5-1.0	.10	.43			
	18-60	40-50	1.25-1.40	0.01-0.42	0.07-0.10	3.0-5.9	0.5-1.0	.05	.37			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink-swell potential	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
Stampede-----	0-11	20-25	1.30-1.40	4.00-14.00	0.16-0.19	3.0-5.9	1.0-3.0	.43	.49	2	6	48
	11-35	40-55	1.20-1.35	0.01-0.42	0.14-0.16	6.0-8.9	0.5-1.0	.28	.32			
	35-45	---	---	0.00-0.01	---	---	---	---	---			
Heechee-----	0-7	15-27	1.15-1.25	4.00-14.00	0.12-0.15	0.0-2.9	2.0-4.0	.20	.37	5	6	48
	7-20	25-35	1.30-1.45	1.40-4.00	0.06-0.14	0.0-2.9	1.0-2.0	.10	.49			
	20-60	10-25	1.40-1.60	42.00-141.0	0.02-0.06	0.0-2.9	0.0-1.0	.05	.49			
1740: Slipback-----	0-12	12-18	1.40-1.55	14.00-42.00	0.11-0.13	0.0-2.9	1.0-2.0	.28	.32	4	3	86
	12-39	25-35	1.40-1.60	1.40-4.00	0.10-0.13	3.0-5.9	0.5-1.0	.10	.17			
	39-55	12-18	1.50-1.65	14.00-42.00	0.08-0.10	0.0-2.9	0.0-0.5	.15	.24			
	55-60	2-8	1.50-1.70	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
Welch-----	0-5	15-20	1.25-1.40	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	4	5	56
	5-41	27-35	1.30-1.45	1.40-4.00	0.16-0.21	3.0-5.9	0.5-3.0	.28	.32			
	41-61	5-14	1.50-1.70	42.00-141.0	0.03-0.05	0.0-2.9	0.0-0.5	.10	.17			
1741: Slipback-----	0-12	12-18	1.40-1.55	14.00-42.00	0.11-0.13	0.0-2.9	1.0-2.0	.28	.32	4	3	86
	12-39	25-35	1.40-1.60	1.40-4.00	0.10-0.13	3.0-5.9	0.5-1.0	.10	.17			
	39-55	12-18	1.50-1.65	14.00-42.00	0.08-0.10	0.0-2.9	0.0-0.5	.15	.24			
	55-60	2-8	1.50-1.70	42.00-141.0	0.02-0.05	0.0-2.9	0.0-0.5	.05	.15			
Shantown-----	0-2	2-8	1.45-1.65	42.00-141.0	0.06-0.08	0.0-2.9	1.0-3.0	.10	.24	4	3	86
	2-11	2-8	1.45-1.60	42.00-141.0	0.06-0.10	0.0-2.9	1.0-3.0	.17	.28			
	11-33	8-12	1.50-1.70	42.00-141.0	0.06-0.08	0.0-2.9	0.5-1.0	.15	.28			
	33-49	2-8	1.55-1.75	42.00-141.0	0.06-0.08	0.0-2.9	0.0-0.5	.10	.20			
	49-60	2-6	1.60-1.75	141.0-705.0	0.02-0.03	0.0-2.9	0.0-0.5	.02	.10			
Toba-----	0-4	20-27	1.30-1.50	4.00-14.00	0.16-0.18	3.0-5.9	2.0-4.0	.37	.37	5	4L	86
	4-14	27-35	1.35-1.55	1.40-4.00	0.19-0.21	3.0-5.9	0.5-1.0	.28	.28			
	14-23	2-6	1.55-1.70	42.00-141.0	0.08-0.10	0.0-2.9	0.0-0.5	.20	.20			
	23-60	0-4	1.60-1.75	141.0-705.0	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
1750: Heechee-----	0-7	15-27	1.10-1.25	4.00-14.00	0.12-0.14	0.0-2.9	2.0-4.0	.20	.37	5	6	48
	7-20	25-35	1.30-1.45	1.40-4.00	0.06-0.14	0.0-2.9	1.0-2.0	.10	.43			
	20-60	10-20	1.40-1.60	42.00-141.0	0.03-0.06	0.0-2.9	0.5-1.0	.05	.28			
Welch-----	0-8	15-20	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	8-60	27-35	1.30-1.50	1.40-4.00	0.16-0.21	3.0-5.9	0.5-4.0	.28	.32			
Welch-----	0-8	15-20	1.25-1.40	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	8-60	27-35	1.30-1.45	1.40-4.00	0.16-0.21	3.0-5.9	0.5-4.0	.28	.32			
1760: Lykal-----	0-12	12-18	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	1.0-2.0	.55	.55	5	4L	86
	12-41	12-18	1.35-1.55	4.00-14.00	0.18-0.20	0.0-2.9	0.5-1.0	.49	.49			
	41-51	12-18	1.40-1.60	4.00-14.00	0.18-0.20	0.0-2.9	0.0-0.5	.49	.49			
	51-60	20-27	1.45-1.60	4.00-14.00	0.10-0.13	3.0-5.9	0.0-0.5	.32	.37			
Wendane-----	0-8	15-25	1.35-1.50	4.00-14.00	0.15-0.21	0.0-2.9	0.0-0.5	.55	.55	5	4L	86
	8-42	15-25	1.30-1.50	4.00-14.00	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
	42-60	27-35	1.30-1.50	1.40-4.00	0.19-0.21	3.0-5.9	0.0-0.5	.43	.43			
James Canyon----	0-8	10-15	1.25-1.45	14.00-42.00	0.13-0.15	0.0-2.9	2.0-4.0	.37	.37	5	3	86
	8-33	18-27	1.30-1.50	4.00-14.00	0.12-0.15	3.0-5.9	2.0-4.0	.24	.43			
	33-60	10-15	1.50-1.65	14.00-42.00	0.13-0.15	0.0-2.9	1.0-2.0	.37	.37			
1770: Donna-----	0-7	15-25	1.25-1.35	4.00-14.00	0.18-0.20	0.0-2.9	1.0-3.0	.37	.43	2	6	48
	7-33	60-70	1.15-1.35	0.01-0.42	0.14-0.16	6.0-8.9	0.5-2.0	.20	.24			
	33-43	---	---	0.00-0.01	---	---	---	---	---			
	43-60	15-25	1.45-1.65	14.00-42.00	0.04-0.06	0.0-2.9	0.0-0.5	.20	.32			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
McIvey-----	0-12	20-27	1.05-1.20	4.00-14.00	0.08-0.17	0.0-2.9	2.0-5.0	.17	.64	5	7	38
	12-18	30-40	1.25-1.45	1.40-4.00	0.12-0.17	3.0-5.9	1.0-2.0	.10	.43			
	18-60	40-50	1.25-1.40	0.01-0.42	0.07-0.10	3.0-5.9	0.5-1.0	.05	.37			
Heechee-----	0-7	15-27	1.40-1.60	4.00-14.00	0.10-0.13	0.0-2.9	2.0-4.0	.10	.32	5	7	38
	7-30	25-35	1.40-1.60	1.40-4.00	0.06-0.14	0.0-2.9	1.0-2.0	.10	.28			
	30-60	10-25	1.55-1.70	42.00-141.0	0.02-0.06	0.0-2.9	0.0-1.0	.05	.20			
1780: Schoer-----	0-3	20-27	1.25-1.45	4.00-14.00	0.15-0.17	3.0-5.9	2.0-4.0	.32	.37	3	6	48
	3-16	35-45	1.30-1.50	0.42-1.40	0.13-0.16	6.0-8.9	1.0-2.0	.20	.37			
	16-23	27-40	1.35-1.55	1.40-4.00	0.11-0.16	3.0-5.9	0.5-1.0	.10	.37			
	23-33	25-35	1.40-1.60	1.40-4.00	0.08-0.11	3.0-5.9	0.5-1.0	.05	.32			
	33-60	2-8	1.50-1.70	141.0-705.0	0.02-0.04	0.0-2.9	0.0-0.5	.02	.15			
Welch-----	0-8	15-20	1.30-1.50	4.00-14.00	0.16-0.18	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	8-60	27-35	1.30-1.50	1.40-4.00	0.16-0.21	3.0-5.9	0.5-4.0	.28	.32			
1790: Donna-----	0-7	15-25	1.25-1.35	4.00-14.00	0.18-0.20	0.0-2.9	1.0-3.0	.37	.43	2	6	48
	7-33	60-70	1.15-1.35	0.01-0.42	0.14-0.16	6.0-8.9	0.5-2.0	.20	.24			
	33-43	---	---	0.00-0.01	---	---	---	---	---			
	43-60	15-25	1.45-1.65	14.00-42.00	0.04-0.06	0.0-2.9	0.0-0.5	.20	.32			
Krenka-----	0-17	10-15	1.35-1.55	4.00-14.00	0.14-0.16	0.0-2.9	2.0-4.0	.32	.37	3	5	56
	17-31	20-25	1.40-1.60	4.00-14.00	0.08-0.11	0.0-2.9	1.0-3.0	.05	.37			
	31-60	20-25	1.45-1.65	4.00-14.00	0.06-0.10	0.0-2.9	0.5-1.0	.02	.37			
McIvey-----	0-12	20-27	1.05-1.20	4.00-14.00	0.08-0.17	0.0-2.9	2.0-5.0	.17	.64	5	7	38
	12-18	30-40	1.25-1.45	1.40-4.00	0.12-0.17	3.0-5.9	1.0-2.0	.10	.43			
	18-60	40-50	1.25-1.40	0.01-0.42	0.07-0.10	3.0-5.9	0.5-1.0	.05	.37			
1800: Chen-----	0-3	20-27	1.10-1.25	4.00-14.00	0.08-0.12	0.0-2.9	2.0-3.0	.10	.32	1	7	38
	3-16	40-55	1.25-1.40	0.01-0.42	0.05-0.09	3.0-5.9	0.5-2.0	.10	.49			
	16-20	---	---	0.00-0.01	---	---	---	---	---			
Graley-----	0-7	10-20	1.30-1.50	4.00-14.00	0.11-0.15	0.0-2.9	1.0-2.0	.28	.49	1	6	48
	7-19	35-45	1.25-1.40	0.42-1.40	0.07-0.10	3.0-5.9	0.5-1.0	.15	.49			
	19-23	---	---	0.00-0.01	---	---	---	---	---			
Rock Outcrop----	---	---	---	---	---	---	---	---	---	---	---	
1810: Sumine-----	0-9	10-20	1.20-1.40	4.00-14.00	0.09-0.12	0.0-2.9	2.0-4.0	.17	.43	2	7	38
	9-23	25-35	1.40-1.60	4.00-14.00	0.08-0.12	0.0-2.9	0.5-2.0	.15	.55			
	23-27	---	---	0.00-0.01	---	---	---	---	---			
Tusel-----	0-17	10-20	1.20-1.45	4.00-14.00	0.14-0.16	0.0-2.9	2.0-5.0	.24	.43	3	6	48
	17-60	25-35	1.25-1.45	1.40-4.00	0.08-0.11	3.0-5.9	0.5-2.0	.20	.43			
Haggood-----	0-8	15-25	1.05-1.20	4.00-14.00	0.08-0.10	0.0-2.9	2.0-3.0	.17	.49	3	7	38
	8-36	18-27	1.15-1.35	4.00-14.00	0.08-0.10	0.0-2.9	0.5-2.0	.10	.24			
	36-50	10-15	1.35-1.55	4.00-14.00	0.07-0.09	0.0-2.9	0.0-0.5	.10	.32			
	50-54	---	---	0.00-0.01	---	---	---	---	---			
1820: Hussa-----	0-16	20-25	1.10-1.30	4.00-14.00	0.17-0.19	0.0-2.9	2.0-3.0	.37	.37	5	4L	66
	16-60	25-35	1.20-1.40	1.40-4.00	0.16-0.19	3.0-5.9	0.5-2.0	.32	.32			
Halleck-----	0-14	18-25	1.15-1.35	4.00-14.00	0.19-0.21	3.0-5.9	2.0-4.0	.24	.24	4	4L	86
	14-41	20-35	1.25-1.45	1.40-4.00	0.19-0.21	3.0-5.9	2.0-4.0	.32	.32			
	41-60	8-18	1.50-1.65	42.00-141.0	0.06-0.08	0.0-2.9	0.0-1.0	.05	.20			
Welsum-----	0-11	20-27	1.15-1.35	4.00-14.00	0.19-0.21	3.0-5.9	2.0-4.0	.37	.37	3	4L	86
	11-25	27-35	1.20-1.40	1.40-4.00	0.19-0.21	3.0-5.9	1.0-4.0	.37	.43			
	25-60	0-5	1.40-1.60	141.0-705.0	0.03-0.05	0.0-2.9	0.0-2.0	.02	.20			

TABLE 11.--PHYSICAL PROPERTIES OF SOILS--Continued

Map symbol and soil name	Depth	Clay	Moist bulk density	Ksat	Available water capacity	Shrink- swell potential	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
								K	Kf	T		
	In	Pct	g/cc	um/sec	In/in	Pct	Pct					
1880: Water-----	---	---	---	---	---	---	---	---	---	-	---	---

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct								
0053:										
Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5	
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	
	16-34	---	---	---	---	---	---	---	---	
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	
Urmafot-----	0-7	18-27	15-25	---	7.9-8.4	10-30	0	0	0	
	7-16	18-27	10-20	---	7.9-8.4	20-40	0	0	0	
	16-29	---	---	---	---	---	---	---	---	
	29-60	5-15	5.0-15	---	7.9-8.4	20-40	0	0.0-2.0	0	
0062:										
Amtoft-----	0-4	15-25	10-20	---	7.9-9.0	10-20	0	0.0-2.0	0	
	4-15	12-27	10-20	---	7.9-9.0	30-40	0	0.0-2.0	0	
	15-25	---	---	---	---	---	---	---	---	
Rock Outcrop---	---	---	---	---	---	---	---	---	---	
Amtoft-----	0-2	15-25	10-20	---	7.9-9.0	10-20	0	0.0-2.0	0	
	2-12	12-27	10-20	---	7.9-9.0	30-40	0	0.0-2.0	0	
	12-16	---	---	---	---	---	---	---	---	
0066:										
Zimbob-----	0-2	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	2-11	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	11-15	---	---	---	---	---	---	---	---	
Zimbob-----	0-1	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	1-6	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	6-10	---	---	---	---	---	---	---	---	
0067:										
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-12	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	12-16	---	---	---	---	---	---	---	---	
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0	
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0	
	14-18	---	---	---	---	---	---	---	---	
0069:										
Zimbob-----	0-2	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	2-11	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	11-15	---	---	---	---	---	---	---	---	
Hyzen-----	0-3	8-18	5.0-20	---	7.9-8.4	20-35	0	0	0	
	3-13	10-18	5.0-15	---	7.9-8.4	30-60	0	0	0	
	13-17	---	---	---	---	---	---	---	---	
Rock Outcrop---	---	---	---	---	---	---	---	---	---	
0070:										
Stowval-----	0-2	12-18	5.0-13	---	7.4-8.4	1-5	0	0	0-2	
	2-6	24-30	12-20	---	7.4-8.4	1-5	0	0	0-2	
	6-10	---	---	---	---	---	---	---	---	
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	1-5	
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0.0-2.0	13-30	
	18-27	---	---	---	---	---	---	---	---	
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0.0-2.0	13-30	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
0071:										
Stewval-----	0-2	12-18		5.0-13	---	7.4-8.4	1-5	0	0	0-2
	2-6	24-30		12-20	---	7.4-8.4	1-5	0	0	0-2
	6-10	---		---	---	---	---	---	---	---
Wesfil-----	0-6	12-18		10-15	---	7.4-9.0	1-10	0	0.0-2.0	1-5
	6-10	---		---	---	---	---	---	---	---
Rock Outcrop----	---	---		---	---	---	---	---	---	---
0080:										
Stewval-----	0-2	12-18		5.0-13	---	7.4-8.4	1-5	0	0	0-2
	2-6	24-30		12-20	---	7.4-8.4	1-5	0	0	0-2
	6-10	---		---	---	---	---	---	---	---
0092:										
Wesfil-----	0-6	12-18		10-15	---	7.4-9.0	1-10	0	0.0-2.0	1-5
	6-10	---		---	---	---	---	---	---	---
Wintermute-----	0-3	8-18		5.0-15	---	7.9-8.4	5-10	0	0	0-5
	3-15	8-18		5.0-15	---	7.9-9.0	5-15	0	0	0-5
	15-53	8-18		5.0-15	---	7.9-9.0	15-35	0	0	0-12
	53-60	27-35		10-20	---	7.9-9.0	15-35	0	0	0-12
Okan-----	0-8	8-18		5.0-15	---	7.9-8.4	1-5	0	0	0
	8-38	8-18		5.0-10	---	7.9-8.4	5-15	0	0	0
	38-60	4-8		1.0-5.0	---	8.5-9.0	5-15	0	0	0
0098:										
Wesfil-----	0-6	12-18		10-15	---	7.4-9.0	1-10	0	0.0-2.0	1-5
	6-10	---		---	---	---	---	---	---	---
Tarnach-----	0-3	18-27		15-25	---	7.9-9.0	5-10	0	0.0-2.0	0
	3-12	18-27		15-25	---	7.9-9.0	15-25	0	0.0-2.0	0
	12-16	---		---	---	---	---	---	---	---
Wesfil-----	0-6	12-18		10-15	---	7.4-9.0	1-10	0	0.0-2.0	1-5
	6-10	---		---	---	---	---	---	---	---
0099:										
Wesfil-----	0-6	12-18		10-15	---	7.4-9.0	1-10	0	0.0-2.0	1-5
	6-10	---		---	---	---	---	---	---	---
Armespan-----	0-7	10-18		5.0-15	---	7.9-9.0	5-10	0	2.0-4.0	1-5
	7-21	12-18		5.0-15	---	7.9-9.0	5-10	0	8.0-16.0	1-5
	21-32	10-18		5.0-15	---	7.9-9.0	10-35	0	8.0-16.0	5-12
	32-60	5-10		1.0-10	---	7.9-9.0	10-35	0	2.0-4.0	5-12
Heist-----	0-4	8-18		5.0-15	---	7.9-8.4	5-20	0	0.0-2.0	0-5
	4-40	8-18		5.0-15	---	7.9-9.0	5-20	0	2.0-4.0	5-13
	40-60	8-18		5.0-10	---	7.9-9.0	5-20	0	2.0-4.0	5-13
0100:										
Benin-----	0-7	15-25		10-15	---	7.9-9.0	1-5	0	8.0-16.0	0-13
	7-60	40-50		25-30	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50
Mazuma-----	0-15	10-14		5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12
	15-60	5-15		2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45
0101:										
Toano-----	0-9	8-15		5.0-15	---	7.9-9.0	10-20	0	0.0-2.0	0-2
	9-27	8-15		5.0-15	---	7.9-9.0	15-30	0-1	0.0-4.0	0-2
	27-60	8-15		5.0-15	---	7.9-9.0	15-30	0-1	8.0-16.0	1-12
Linoyer-----	0-9	12-18		5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0
	9-60	12-18		5.0-15	---	7.9-9.0	10-30	0	0.0-2.0	0

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In Pct	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
0103: Benin-----	0-7 7-60	15-25 40-50	10-15 25-30	--- ---	7.9-9.0 7.9-9.6	1-5 1-10	0 1-5	8.0-16.0 4.0-16.0	0-13 13-50
Playas-----	0-6 6-60	27-40 35-70	20-40 20-40	--- ---	8.5-9.0 8.5-9.0	1-10 1-10	1-10 1-10	4.0-16.0 4.0-16.0	13-45 13-45
0111: Gravier-----	0-3 3-60	8-18 8-18	5.0-15 5.0-15	--- ---	7.9-9.0 7.9-9.0	5-10 15-30	0 0	0.0-4.0 4.0-8.0	1-5 13-30
Armespan-----	0-7 7-21 21-32 32-60	10-18 12-18 10-18 5-10	5.0-15 5.0-15 5.0-15 1.0-10	--- --- --- ---	7.9-9.0 7.9-9.0 7.9-9.0 7.9-9.0	5-10 5-10 10-35 10-35	0 0 0 0	2.0-4.0 8.0-16.0 8.0-16.0 2.0-4.0	1-5 1-5 5-12 5-12
113: Gravier-----	0-3 3-44 44-60	8-18 8-18 0-5	10-20 5.0-15 5.0-10	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	5-10 15-30 5-25	0 0 0	0.0-4.0 4.0-8.0 0.0-4.0	1-5 13-30 13-30
Gravier-----	0-3 3-60	8-18 8-18	5.0-15 5.0-15	--- ---	7.9-9.0 7.9-9.0	5-10 15-30	0 0	0.0-4.0 4.0-8.0	1-5 13-30
Jericho-----	0-4 4-14 14-28 28-60	15-20 10-18 --- 2-4	10-20 10-15 --- 1.0-5.0	--- --- --- ---	7.9-9.0 7.9-9.0 --- 7.9-9.0	15-25 20-30 --- 15-30	0 0 --- 0	0.0-2.0 0.0-2.0 --- 0.0-2.0	0-5 0-5 --- 0-5
0116: Gravier-----	0-3 3-44 44-60	8-18 8-18 0-5	10-20 5.0-15 5.0-10	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	5-10 15-30 5-25	0 0 0	0.0-4.0 4.0-8.0 0.0-4.0	1-5 13-30 13-30
Izamatch-----	0-3 3-13 13-22 22-60	8-18 8-18 0-8 0-8	5.0-15 5.0-15 1.0-10 1.0-10	--- --- --- ---	7.9-9.0 8.5-9.0 7.9-9.6 8.5-9.6	20-30 20-30 20-30 30-40	0 0 0 0	0.0-2.0 0.0-2.0 0.0-2.0 0.0-4.0	0-5 0-5 5-12 13-30
Loray-----	0-12 12-60	10-15 0-8	5.0-15 1.0-8.0	--- ---	7.4-8.4 7.9-9.0	5-15 5-20	0 0	0.0-4.0 0.0-4.0	1-5 5-12
0118: Gravier-----	0-3 3-60	8-18 8-18	5.0-15 5.0-15	--- ---	7.9-9.0 7.9-9.0	5-10 15-30	0 0	0.0-4.0 4.0-8.0	1-5 13-30
Automal-----	0-8 8-49 49-60	15-25 10-20 5-15	15-25 10-20 5.0-10	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	15-20 20-35 15-30	0 0 0	0 0.0-2.0 8.0-16.0	0 1-5 13-30
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	5.0-10 5.0-10 1.0-5.0	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	5-15 10-20 15-35	0 0 0	0.0-2.0 0.0-2.0 0.0-2.0	1-5 5-12 5-12
0119: Wintermute-----	0-3 3-15 15-53 53-60	12-18 8-18 8-18 27-35	8.0-15 5.0-15 5.0-15 10-20	--- --- --- ---	7.9-8.4 7.9-9.0 7.9-9.0 7.9-9.0	1-10 5-15 15-35 15-35	0 0 0 0	0 0 0 0	1-5 1-5 1-12 1-12
Linoyer-----	0-9 9-60	12-18 12-18	5.0-20 5.0-15	--- ---	7.9-9.0 7.9-9.0	5-20 10-30	0 0	0.0-2.0 0.0-2.0	0 0
0120: Izamatch-----	0-3 3-13 13-22 22-60	8-18 8-18 0-8 0-8	5.0-15 5.0-15 1.0-10 1.0-10	--- --- --- ---	7.9-9.0 8.5-9.0 7.9-9.6 8.5-9.6	20-30 20-30 20-30 30-40	0 0 0 0	0.0-2.0 0.0-2.0 0.0-2.0 0.0-4.0	0-5 0-5 5-12 13-30

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Armespan-----	0-7	10-18		5.0-15	---	7.9-9.0	5-10	0	2.0-4.0	1-5
	7-21	12-18		5.0-15	---	7.9-9.0	5-10	0	8.0-16.0	1-5
	21-32	10-18		5.0-15	---	7.9-9.0	10-35	0	8.0-16.0	5-12
	32-60	5-10		1.0-10	---	7.9-9.0	10-35	0	2.0-4.0	5-12
Cliffdown-----	0-6	10-18		5.0-10	---	8.5-9.0	15-40	0	0.0-2.0	1-5
	6-60	8-18		5.0-10	---	8.5-9.0	15-40	0	8.0-16.0	5-12
0122: Gravier-----	0-3	8-18		10-20	---	7.9-9.0	5-10	0	0.0-4.0	1-5
	3-60	8-18		5.0-15	---	7.9-9.0	15-30	0	4.0-8.0	13-30
Izamatch-----	0-3	8-18		5.0-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	3-13	8-18		5.0-15	---	8.5-9.0	20-30	0	0.0-2.0	0-5
	13-22	0-8		1.0-10	---	7.9-9.6	20-30	0	0.0-2.0	5-12
	22-60	0-8		1.0-10	---	8.5-9.6	30-40	0	0.0-4.0	13-30
0130: Tooele-----	0-5	5-18		3.0-10	---	8.5-9.6	5-25	0	0.0-4.0	5-12
	5-44	5-18		2.0-10	---	8.5-9.6	10-40	0	4.0-8.0	15-35
	44-61	8-18		2.0-10	---	8.5-9.6	10-40	1-2	16.0-32.0	15-35
Benin-----	0-7	15-25		10-15	---	7.9-9.0	1-5	0	8.0-16.0	0-13
	7-60	40-50		25-30	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50
0140: Gollaher-----	0-5	15-27		10-25	---	7.4-8.4	10-20	0	0	0
	5-10	15-27		5.0-20	---	7.4-8.4	25-40	0	0.0-2.0	0
	10-14	---		---	---	---	---	---	---	---
Belsac-----	0-21	18-25		15-25	---	6.6-7.8	0	0	0	0
	21-35	18-25		15-20	---	7.4-8.4	0-10	0	0	0
	35-39	---		---	---	---	---	---	---	---
0151: Hopeka-----	0-10	18-27		10-20	---	7.9-9.0	30-50	0	0.0-2.0	0
	10-14	---		---	---	---	---	---	---	---
Amene-----	0-12	20-27		10-25	---	7.4-9.0	10-20	0	0.0-2.0	0
	12-18	18-27		10-20	---	7.9-9.0	35-45	0	0.0-2.0	0
	18-22	---		---	---	---	---	---	---	---
Rock Outcrop----	---	---		---	---	---	---	---	---	---
0154: Hopeka-----	0-10	18-27		10-20	---	7.9-9.0	30-50	0	0.0-2.0	0
	10-14	---		---	---	---	---	---	---	---
Tecomar-----	0-2	18-27		10-20	---	7.9-9.0	10-30	0	0.0-2.0	0
	2-14	18-27		5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5
	14-18	---		---	---	---	---	---	---	---
0160: Saltair-----	0-11	20-27		10-15	---	7.9-9.0	15-40	0	16.0-32.0	13-90
	11-60	20-35		10-20	---	7.9-9.0	15-40	0	16.0-32.0	13-90
Kawich-----	0-2	0-5		1.0-5.0	---	8.5-9.6	1-5	1-5	4.0-8.0	1-5
	2-60	0-5		1.0-5.0	---	8.5-9.6	1-10	1-5	4.0-8.0	1-5
0161: Saltair-----	0-11	20-27		10-15	---	7.9-9.0	15-40	0	16.0-32.0	13-90
	11-60	20-35		10-20	---	7.9-9.0	15-40	0	16.0-32.0	13-90
Playas-----	0-6	35-70		---	---	8.5-9.0	---	---	16.0-32.0	---
	6-60	35-70		---	---	8.5-9.0	---	---	16.0-32.0	---

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
0171: Loray-----	0-12 12-60	10-15 0-8	5.0-15 1.0-8.0	--- ---	7.4-8.4 7.9-9.0	5-15 5-20	0 0	0.0-4.0 0.0-4.0	1-5 5-12
Gravier-----	0-3 3-44 44-60	8-18 8-18 0-5	5.0-15 5.0-15 5.0-10	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	5-10 15-30 5-25	0 0 0	0.0-4.0 4.0-8.0 0.0-4.0	1-5 13-30 13-30
Toano-----	0-9 9-27 27-60	8-15 8-15 8-15	10-20 5.0-15 5.0-15	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	10-20 15-30 15-30	0 0-1 0-1	0.0-2.0 0.0-4.0 8.0-16.0	0 0-2 1-12
0173: Cliffdown-----	0-6 6-60	10-18 8-18	5.0-10 5.0-10	--- ---	8.5-9.0 8.5-9.0	15-40 15-40	0 0	0.0-2.0 8.0-16.0	1-5 5-12
Armespan-----	0-7 7-21 21-32 32-60	10-18 12-18 10-18 5-10	5.0-15 5.0-15 5.0-15 1.0-10	--- --- --- ---	7.9-9.0 7.9-9.0 7.9-9.0 7.9-9.0	5-10 5-10 10-35 10-35	0 0 0 0	2.0-4.0 8.0-16.0 8.0-16.0 2.0-4.0	1-5 1-5 5-12 5-12
Izamatch-----	0-3 3-13 13-22 22-60	8-18 8-18 0-8 0-8	5.0-15 5.0-15 1.0-10 1.0-10	--- --- --- ---	7.9-9.0 8.5-9.0 7.9-9.6 8.5-9.6	20-30 20-30 20-30 30-40	0 0 0 0	0.0-2.0 0.0-2.0 0.0-2.0 0.0-4.0	0-5 0-5 5-12 13-30
0174: Wintermute-----	0-3 3-15 15-53 53-60	8-18 8-18 8-18 27-35	5.0-15 5.0-15 5.0-15 10-20	--- --- --- ---	7.9-8.4 7.9-9.0 7.9-9.0 7.9-9.0	5-10 5-15 15-35 15-35	0 0 0 0	0 0 0 0	1-5 1-5 1-12 1-12
Linoyer-----	0-9 9-60	12-18 12-18	5.0-15 5.0-15	--- ---	7.9-9.0 7.9-9.0	5-20 10-30	0 0	0.0-2.0 0.0-2.0	0 0
Okan-----	0-8 8-38 38-60	8-18 8-18 4-8	5.0-15 5.0-10 1.0-5.0	--- --- ---	7.9-8.4 7.9-8.4 8.5-9.0	1-5 5-15 5-15	0 0 0	0 0 0	0 0 0
0175: Loray-----	0-12 12-60	10-15 0-8	5.0-15 1.0-8.0	--- ---	7.4-8.4 7.9-9.0	5-15 5-20	0 0	0.0-4.0 0.0-4.0	1-5 5-12
Wintermute-----	0-3 3-15 15-53 53-60	8-18 8-18 8-18 27-35	5.0-15 5.0-15 5.0-15 10-20	--- --- --- ---	7.9-8.4 7.9-9.0 7.9-9.0 7.9-9.0	5-10 5-15 15-35 15-35	0 0 0 0	0 0 0 0	1-5 1-5 1-12 1-12
0176: Loray-----	0-12 12-60	10-15 0-8	5.0-15 1.0-8.0	--- ---	7.4-8.4 7.9-9.0	5-15 5-20	0 0	0.0-4.0 0.0-4.0	1-5 5-12
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	5.0-10 5.0-10 1.0-5.0	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	5-15 10-20 15-35	0 0 0	0.0-2.0 0.0-2.0 0.0-2.0	1-5 5-12 5-12
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	5.0-10 5.0-10 1.0-5.0	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	5-15 10-20 15-35	0 0 0	0.0-2.0 0.0-2.0 0.0-2.0	1-5 5-12 5-12
0181: Peeko-----	0-4 4-10 10-30	10-27 18-27 ---	5.0-20 10-20 ---	--- --- ---	7.9-8.4 7.9-8.4 ---	1-10 1-10 ---	0 0 ---	0.0-2.0 0.0-2.0 ---	0 1-5 ---

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay Pct	Cation- exchange capacity meq/100g	Effective cation- exchange capacity meq/100g	Soil reaction pH	Calcium carbonate Pct	Gypsum Pct	Salinity mmhos/cm	Sodium adsorption ratio
	In	Pct								
Izar-----	0-1	18-25	15-20	---	7.4-8.4	1-10	0	0.0-2.0	0	
	1-10	18-25	10-15	---	7.4-8.4	5-30	0	0.0-2.0	0	
	10-14	---	---	---	---	---	---	---	---	
Izar-----	0-3	18-25	15-20	---	7.4-8.4	1-10	0	0.0-2.0	0	
	3-12	18-25	10-15	---	7.4-8.4	5-30	0	0.0-2.0	0	
	12-16	---	---	---	---	---	---	---	---	
0188:										
Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5	
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	
	16-34	---	---	---	---	---	---	---	---	
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	
Automal-----	0-8	15-25	15-25	---	7.9-9.0	15-20	0	0	0	
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5	
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30	
Izar-----	0-1	18-25	15-20	---	7.4-8.4	1-10	0	0.0-2.0	0	
	1-10	18-25	10-15	---	7.4-8.4	5-30	0	0.0-2.0	0	
	10-14	---	---	---	---	---	---	---	---	
0192:										
Hutchley-----	0-4	12-25	11-21	---	6.6-7.8	0	0	0	0	
	4-13	28-35	17-22	---	6.6-7.8	0	0	0	0	
	13-17	---	---	---	---	---	---	---	---	
Simon-----	0-10	10-20	10-20	---	6.6-7.3	0	0	0	0	
	10-15	18-35	10-25	---	6.1-7.3	0	0	0	0	
	15-47	35-45	20-30	---	6.1-7.3	0	0	0	0	
	47-60	20-35	10-20	---	6.6-7.3	0	0	0	0	
0201:										
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	18-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
Hopeka-----	0-10	18-27	10-20	---	7.9-9.0	30-50	0	0.0-2.0	0	
	10-14	---	---	---	---	---	---	---	---	
Rock Outcrop----	---	---	---	---	---	---	---	---	---	
0203:										
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0	
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0	
	14-18	---	---	---	---	---	---	---	---	
Pharo-----	0-13	15-20	15-25	---	7.4-8.4	5-15	0	0	0	
	13-36	10-20	10-15	---	7.9-9.0	40-55	0	0	0	
	36-60	2-8	5.0-10	---	7.9-9.0	30-40	0	0	0	
0210:										
Mazuma-----	0-15	10-14	5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12	
	15-60	5-15	2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45	
Hardhat-----	0-9	8-18	5.0-15	---	7.9-9.0	1-10	0	0.0-2.0	1-5	
	9-19	8-18	5.0-15	---	7.9-9.0	10-20	0	0.0-2.0	1-5	
	19-40	5-15	5.0-15	---	7.9-9.0	10-20	1-2	2.0-8.0	5-12	
	40-60	5-15	5.0-15	---	7.9-9.0	10-20	1-5	16.0-32.0	13-30	
Loray-----	0-12	10-15	5.0-15	---	7.4-8.4	5-15	0	0.0-4.0	1-5	
	12-60	0-8	1.0-8.0	---	7.9-9.0	5-20	0	0.0-4.0	5-12	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Kzin-----	0-3	15-25		10-25	---	7.9-9.0	15-25	0	0.0-2.0	1-5
	3-9	15-25		10-20	---	7.9-9.0	15-30	0	0.0-2.0	1-5
	9-13	---		---	---	---	---	---	---	---
0331:										
Kzin-----	0-3	15-25		10-25	---	7.9-9.0	15-25	0	0.0-2.0	1-5
	3-9	15-25		10-20	---	7.9-9.0	15-30	0	0.0-2.0	1-5
	9-13	---		---	---	---	---	---	---	---
Cobre-----	0-7	15-25		10-20	---	7.4-8.4	0-5	0	0.0-2.0	0
	7-15	15-25		10-20	---	7.4-8.4	0-5	0	0.0-2.0	0
	15-34	8-18		5.0-10	---	7.4-8.4	0-5	0	0.0-2.0	0
	34-38	---		---	---	---	---	---	---	---
Jackpot-----	0-4	5-10		10-15	---	6.6-7.8	0	0	0	0
	4-11	5-10		10-15	---	6.6-7.8	0	0	0	0
	11-15	---		---	---	---	---	---	---	---
0333:										
Kzin-----	0-3	15-25		10-25	---	7.9-9.0	15-25	0	0.0-2.0	1-5
	3-8	15-25		10-20	---	7.9-9.0	15-30	0	0.0-2.0	1-5
	8-12	---		---	---	---	---	---	---	---
Holborn-----	0-3	18-27		10-25	---	7.9-9.0	1-10	0	0.0-2.0	0
	3-7	18-30		10-25	---	7.9-9.0	15-30	0	0.0-2.0	0
	7-17	---		---	---	---	---	---	---	---
Onkeyo-----	0-8	18-27		10-25	---	7.4-8.4	1-10	0	0	0
	8-17	25-35		10-20	---	7.4-8.4	15-25	0	0.0-2.0	0
	17-21	---		---	---	---	---	---	---	---
0340:										
Shuttle-----	0-6	8-18		10-20	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	6-19	8-18		10-20	---	7.9-9.0	5-15	0	4.0-16.0	13-30
	19-45	5-15		5.0-20	---	7.9-9.0	10-20	1-5	16.0-32.0	13-45
	45-60	---		---	---	---	---	---	---	---
Hardhat-----	0-9	8-18		5.0-15	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	9-19	8-18		5.0-15	---	7.9-9.0	10-20	0	0.0-2.0	1-5
	19-40	5-15		5.0-15	---	7.9-9.0	10-20	1-2	2.0-8.0	5-12
	40-60	5-15		5.0-15	---	7.9-9.0	10-20	1-5	16.0-32.0	13-30
Shuttle-----	0-5	8-15		10-20	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	5-15	8-18		10-20	---	7.9-9.0	5-15	0	4.0-16.0	13-30
	15-42	5-15		5.0-15	---	7.9-9.0	10-20	1-5	16.0-32.0	13-45
	42-61	5-15		5.0-15	---	7.9-9.0	10-25	1-5	16.0-32.0	30-45
0350:										
Jericho-----	0-4	10-18		10-15	---	7.9-9.0	15-25	0	0.0-2.0	0-5
	4-14	10-18		10-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	14-28	---		---	---	---	---	---	---	---
	28-60	5-10		4.0-8.0	---	7.9-9.0	15-30	0	0.0-2.0	0-5
Jericho-----	0-4	10-18		10-15	---	7.9-9.0	15-25	0	0.0-2.0	0-5
	4-14	10-18		10-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	14-28	---		---	---	---	---	---	---	---
	28-60	5-10		4.0-8.0	---	7.9-9.0	15-30	0	0.0-2.0	0-5
0351:										
Shabliss-----	0-2	10-18		10-20	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	2-15	5-15		5.0-15	---	6.6-9.0	5-25	0	0.0-4.0	5-12
	15-31	---		---	---	---	---	---	---	---
	31-60	0-5		2.0-10	---	7.9-9.6	10-30	0	4.0-8.0	13-30
Okan-----	0-8	8-18		5.0-15	---	7.9-8.4	1-5	0	0	0
	8-38	8-18		5.0-10	---	7.9-8.4	5-15	0	0	0
	38-60	4-8		1.0-5.0	---	8.5-9.0	5-15	0	0	0

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay Pct	Cation- exchange capacity meq/100g	Effective cation- exchange capacity meq/100g	Soil reaction pH	Calcium carbonate Pct	Gypsum Pct	Salinity mmhos/cm	Sodium adsorption ratio
	In	Pct								
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	1-5	
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0.0-2.0	13-30	
	18-27	---	---	---	---	---	---	---	---	
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0.0-2.0	13-30	
0355: Shabliss-----	0-2	10-18	10-20	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	2-15	5-15	5.0-15	---	6.6-9.0	5-25	0	0.0-4.0	5-12	
	15-31	---	---	---	---	---	---	---	---	
	31-60	0-5	2.0-10	---	7.9-9.6	10-30	0	4.0-8.0	13-30	
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	
0370: Toano-----	0-9	8-15	5.0-15	---	7.9-9.0	10-20	0	0.0-2.0	0-2	
	9-27	8-15	5.0-15	---	7.9-9.0	15-30	0-1	0.0-4.0	0-2	
	27-60	8-15	5.0-15	---	7.9-9.0	15-30	0-1	8.0-16.0	1-12	
Tulase-----	0-2	8-18	10-15	---	7.9-8.4	5-10	0	0.0-2.0	0	
	2-60	8-18	5.0-15	---	7.9-9.0	10-15	0	0.0-2.0	1-5	
0371: Linoyer-----	0-9	12-18	5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0	
	9-60	12-18	5.0-15	---	7.9-9.0	10-30	0	0.0-2.0	0	
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	
0373: Timpie-----	0-8	18-27	10-15	---	8.5-9.0	15-40	0	0.0-4.0	5-13	
	8-19	18-27	10-15	---	8.5-9.6	15-40	0	4.0-8.0	13-50	
	19-60	18-27	10-15	---	8.5-9.6	15-40	0	16.0-32.0	13-50	
Piltedown-----	0-10	10-18	5.0-15	---	7.4-9.0	1-5	0	0.0-4.0	0	
	10-60	10-18	5.0-15	---	7.4-9.0	1-10	0	2.0-8.0	1-5	
Linoyer-----	0-9	12-18	5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0	
	9-60	12-18	5.0-15	---	7.9-9.0	10-30	0	0.0-2.0	0	
0374: Heist-----	0-4	8-18	5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0-5	
	4-40	8-18	5.0-15	---	7.9-9.0	5-20	0	2.0-4.0	5-13	
	40-60	8-18	5.0-10	---	7.9-9.0	5-20	0	2.0-4.0	5-13	
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	
Zerk-----	0-2	12-17	5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5	
	2-16	12-17	5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12	
	16-60	0-10	1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12	
0375: Toano-----	0-9	8-15	5.0-15	---	7.9-9.0	10-20	0	0.0-2.0	0-2	
	9-27	8-15	5.0-15	---	7.9-9.0	15-30	0-1	0.0-4.0	0-2	
	27-60	8-15	5.0-15	---	7.9-9.0	15-30	0-1	8.0-16.0	1-12	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay Pct	Cation- exchange capacity meq/100g	Effective cation- exchange capacity meq/100g	Soil reaction pH	Calcium carbonate Pct	Gypsum Pct	Salinity mmhos/cm	Sodium adsorption ratio
	In	Pct								
0400:										
Cleavage-----	0-7	15-25	15-25	---	6.6-7.8	0	0	0	0	0
	7-15	20-35	15-30	---	6.6-7.8	0	0	0	0	0
	15-19	---	---	---	---	---	---	---	---	---
Cleavage-----	0-7	15-25	15-25	---	6.6-7.8	0	0	0	0	0
	7-15	20-35	15-30	---	6.6-7.8	0	0	0	0	0
	15-19	---	---	---	---	---	---	---	---	---
Sumine-----	0-9	10-20	20-30	---	6.6-7.8	0	0	0	0	0
	9-23	25-35	20-30	---	6.6-7.8	0	0	0	0	0
	23-27	---	---	---	---	---	---	---	---	---
410:										
Jericho-----	0-4	15-20	10-20	---	7.9-9.0	15-25	0	0.0-2.0	0-5	0-5
	4-14	10-18	10-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5	0-5
	14-28	---	---	---	---	---	---	---	---	---
	28-60	2-4	1.0-5.0	---	7.9-9.0	15-30	0	0.0-2.0	0-5	0-5
411:										
Jericho-----	0-4	15-20	10-20	---	7.9-9.0	15-25	0	0.0-2.0	0-5	0-5
	4-14	10-18	10-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5	0-5
	14-28	---	---	---	---	---	---	---	---	---
	28-60	2-4	1.0-5.0	---	7.9-9.0	15-30	0	0.0-2.0	0-5	0-5
Armespan-----	0-7	10-18	5.0-15	---	7.9-9.0	5-10	0	2.0-4.0	1-5	1-5
	7-21	12-18	5.0-15	---	7.9-9.0	5-10	0	8.0-16.0	1-5	1-5
	21-32	10-18	5.0-15	---	7.9-9.0	10-35	0	8.0-16.0	5-12	5-12
	32-60	5-10	1.0-10	---	7.9-9.0	10-35	0	2.0-4.0	5-12	5-12
0420:										
Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	0	0
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	1-5
	16-34	---	---	---	---	---	---	---	---	---
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	1-12
Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	0	0
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	1-5
	16-34	---	---	---	---	---	---	---	---	---
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	1-12
0421:										
Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	0	0
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	1-5
	16-34	---	---	---	---	---	---	---	---	---
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	1-12
Automal-----	0-8	15-25	15-25	---	7.9-9.0	15-20	0	0	0	0
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5	1-5
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30	13-30
0422:										
Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	0	0
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	1-5
	16-34	---	---	---	---	---	---	---	---	---
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	1-12
Zimbob-----	0-2	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	1-5
	2-11	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	1-5
	11-15	---	---	---	---	---	---	---	---	---
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	0

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
McIvey-----	0-12	20-27		15-30	---	6.6-7.3	0	0	0	0
	12-18	30-40		20-30	---	6.1-7.3	0	0	0	0
	18-60	40-50		25-30	---	6.1-7.3	0	0	0	0
0440: Lomoine-----	0-9	8-15		5.0-15	---	7.4-8.4	1-5	0	0.0-2.0	0
	9-11	8-15		5.0-15	---	7.4-8.4	1-5	0	0.0-2.0	0
	11-15	---		---	---	---	---	---	---	---
Bijorja-----	0-4	8-18		5.0-15	---	7.4-7.8	0	0	0	0
	4-25	10-18		5.0-15	---	7.4-8.4	0-10	0	0.0-2.0	0
	25-29	---		---	---	---	---	---	---	---
Lomoine-----	0-9	8-15		5.0-15	---	7.4-8.4	1-5	0	0.0-2.0	0
	9-11	8-15		5.0-15	---	7.4-8.4	1-5	0	0.0-2.0	0
	11-15	---		---	---	---	---	---	---	---
0460: Okan-----	0-8	8-18		5.0-15	---	7.9-8.4	1-5	0	0	0
	8-38	8-18		5.0-10	---	7.9-8.4	5-15	0	0	0
	38-60	4-8		1.0-5.0	---	8.5-9.0	5-15	0	0	0
Automal-----	0-8	15-25		15-25	---	7.9-9.0	15-20	0	0	0
	8-49	10-20		10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5
	49-60	5-15		5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30
Hundraw-----	0-5	8-18		5.0-15	---	7.9-8.4	5-10	0	0.0-2.0	0
	5-10	8-18		5.0-15	---	7.9-8.4	5-15	0	0.0-2.0	0
	10-14	---		---	---	---	---	---	---	---
0470: Rozara-----	0-2	4-8		5.0-10	---	7.4-7.8	0	0	0	0
	2-11	14-18		5.0-15	---	7.4-7.8	0	0	0	0
	11-15	---		---	---	---	---	---	---	---
Cucamungo-----	0-3	10-18		10-20	---	6.6-7.8	0	0	0	0
	3-14	20-30		15-25	---	6.6-8.4	0	0	0.0-2.0	0-1
	14-19	---		---	---	---	---	---	---	---
Rock Outcrop----	---	---		---	---	---	---	---	---	
0471: Cucamungo-----	0-3	10-18		10-20	---	6.6-7.8	0	0	0	0
	3-14	20-30		15-25	---	6.6-8.4	0	0	0.0-2.0	0-1
	14-19	---		---	---	---	---	---	---	---
Hendap-----	0-7	6-12		5.0-10	---	7.4-7.8	1-5	0	0	0
	7-13	6-12		3.0-10	---	7.4-7.8	1-10	0	0	0
	13-17	---		---	---	---	---	---	---	---
Rock Outcrop----	---	---		---	---	---	---	---	---	
0480: Shabliss-----	0-2	10-18		10-20	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	2-15	5-15		5.0-15	---	6.6-9.0	5-25	0	0.0-4.0	5-12
	15-31	---		---	---	---	---	---	---	---
	31-60	0-5		2.0-10	---	7.9-9.6	10-30	0	4.0-8.0	13-30
Palinor-----	0-8	10-18		5.0-15	---	7.9-9.0	15-25	0	0	1-5
	8-16	10-18		5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5
	16-34	---		---	---	---	---	---	---	---
	34-60	2-8		0.0-5.0	---	7.9-9.0	25-45	0	0	1-12

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm		
0485: Shabliss-----	0-2	10-18	10-20	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	2-15	5-15	5.0-15	---	6.6-9.0	5-25	0	0.0-4.0	5-12	
	15-31	---	---	---	---	---	---	---	---	
	31-60	0-5	2.0-10	---	7.9-9.6	10-30	0	4.0-8.0	13-30	
Parisa-----	0-5	8-18	5.0-15	---	7.9-9.0	1-5	0	0.0-2.0	1-5	
	5-36	8-18	5.0-15	---	7.9-9.0	15-40	0	0.0-2.0	5-12	
	36-55	---	---	---	---	---	---	---	---	
	55-60	0-8	1.0-5.0	---	7.9-9.0	15-30	0	2.0-8.0	13-30	
Hunnton-----	0-8	10-25	10-25	---	7.4-8.4	0	0	0.0-4.0	0-5	
	8-12	20-30	15-25	---	7.9-8.4	0	0	0.0-4.0	0-5	
	12-21	45-55	35-55	---	7.4-8.4	0-5	0	0.0-4.0	1-5	
	21-40	---	---	---	---	---	---	---	---	
0490: Wintermute-----	0-3	8-18	5.0-15	---	7.9-8.4	5-10	0	0	1-5	
	3-15	8-18	5.0-15	---	7.9-9.0	5-15	0	0	1-5	
	15-53	8-18	5.0-15	---	7.9-9.0	15-35	0	0	1-12	
	53-60	27-35	10-20	---	7.9-9.0	15-35	0	0	1-12	
Automal-----	0-8	15-25	15-25	---	7.9-9.0	15-20	0	0	0	
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5	
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30	
0492: Wintermute-----	0-3	8-18	5.0-15	---	7.9-8.4	5-10	0	0	1-5	
	3-15	8-18	5.0-15	---	7.9-9.0	5-15	0	0	1-5	
	15-53	8-18	5.0-15	---	7.9-9.0	15-35	0	0	1-12	
	53-60	27-35	10-20	---	7.9-9.0	15-35	0	0	1-12	
Peeko-----	0-4	10-27	5.0-20	---	7.9-8.4	1-10	0	0.0-2.0	0	
	4-10	18-27	10-20	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	10-30	---	---	---	---	---	---	---	---	
Hundraw-----	0-5	8-18	5.0-15	---	7.9-8.4	5-10	0	0.0-2.0	0	
	5-10	8-18	5.0-15	---	7.9-8.4	5-15	0	0.0-2.0	0	
	10-14	---	---	---	---	---	---	---	---	
0494: Wintermute-----	0-3	8-18	5.0-15	---	7.9-8.4	5-10	0	0	1-5	
	3-15	8-18	5.0-15	---	7.9-9.0	5-15	0	0	1-5	
	15-53	8-18	5.0-15	---	7.9-9.0	15-35	0	0	1-12	
	53-60	27-35	10-20	---	7.9-9.0	15-35	0	0	1-12	
Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	
Automal-----	0-8	10-20	15-25	---	7.9-9.0	15-20	0	0	0	
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5	
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30	
0496: Sodhouse-----	0-8	10-18	5.0-10	---	7.9-9.0	0-5	0	0.0-2.0	1-5	
	8-16	10-18	5.0-10	---	7.9-8.4	5-10	0	0.0-2.0	5-12	
	16-60	---	---	---	---	---	---	---	---	
Sodhouse-----	0-8	10-18	5.0-10	---	7.9-9.0	0-5	0	0.0-2.0	1-5	
	8-16	10-18	5.0-10	---	7.9-8.4	5-10	0	0.0-2.0	5-12	
	16-60	---	---	---	---	---	---	---	---	
Linoyer-----	0-9	12-18	10-15	---	7.9-9.0	10-20	0	0.0-2.0	0	
	9-60	12-18	10-15	---	7.9-9.0	10-40	0	0.0-2.0	0	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct								
0540: Kunzler-----	0-16	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13	
	16-48	10-18	4.0-12	---	7.9-9.6	15-20	0	4.0-16.0	13-30	
	48-60	10-18	4.0-12	---	7.9-9.6	5-15	0	4.0-16.0	30-60	
Sycomat-----	0-5	5-15	2.0-10	---	7.9-8.4	15-30	0	2.0-4.0	0-5	
	5-11	5-18	2.0-10	---	7.9-9.6	10-30	0	2.0-4.0	0-5	
	11-48	5-18	2.0-10	---	7.9-9.6	10-30	0	2.0-4.0	0-5	
	48-60	2-5	0.0-2.0	---	8.5-9.0	10-30	0	2.0-4.0	0-5	
0541: Kunzler-----	0-16	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13	
	16-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30	
	48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60	
Sheffit-----	0-4	17-27	10-20	---	8.5-9.6	15-20	0	4.0-8.0	5-12	
	4-60	35-50	20-30	---	8.5-9.6	20-35	1-5	8.0-16.0	13-45	
0550: Urmafot-----	0-7	18-27	15-25	---	7.9-8.4	10-30	0	0	0	
	7-16	18-27	10-20	---	7.9-8.4	20-40	0	0	0	
	16-29	---	---	---	---	---	---	---	---	
	29-60	5-15	5.0-15	---	7.9-8.4	20-40	0	0.0-2.0	0	
Bobs-----	0-8	10-20	10-20	---	7.9-9.0	20-30	0	0	0	
	8-13	10-20	8.0-18	---	7.9-9.0	35-45	0	0.0-2.0	1-5	
	13-17	---	---	---	---	---	---	---	---	
Urmafot-----	0-5	18-27	15-25	---	7.9-8.4	10-30	0	0	0	
	5-9	18-27	10-20	---	7.9-8.4	20-40	0	0	0	
	9-29	---	---	---	---	---	---	---	---	
	29-60	5-15	5.0-15	---	7.9-8.4	20-40	0	0.0-2.0	0	
0551: Urmafot-----	0-7	18-27	15-25	---	7.9-8.4	10-30	0	0	0	
	7-16	18-27	10-20	---	7.9-8.4	20-40	0	0	0	
	16-29	---	---	---	---	---	---	---	---	
	29-60	5-15	5.0-15	---	7.9-8.4	20-40	0	0.0-2.0	0	
Bobs-----	0-8	10-20	10-20	---	7.9-9.0	20-30	0	0	0	
	8-13	10-20	8.0-18	---	7.9-9.0	35-45	0	0.0-2.0	1-5	
	13-17	---	---	---	---	---	---	---	---	
552: Urmafot-----	0-7	18-27	15-25	---	7.9-8.4	10-30	0	0	0	
	7-16	18-27	10-20	---	7.9-8.4	20-40	0	0	0	
	16-29	---	---	---	---	---	---	---	---	
	29-60	5-15	5.0-15	---	7.9-8.4	20-40	0	0.0-2.0	0	
Pharo-----	0-13	15-20	15-25	---	7.4-8.4	5-15	0	0	0	
	13-36	10-20	10-15	---	7.9-9.0	40-55	0	0	0	
	36-60	2-8	5.0-10	---	7.9-9.0	30-40	0	0	0	
0554: Urmafot-----	0-7	18-27	15-25	---	7.9-8.4	10-30	0	0	0	
	7-16	18-27	10-20	---	7.9-8.4	20-40	0	0	0	
	16-29	---	---	---	---	---	---	---	---	
	29-60	5-15	5.0-15	---	7.9-8.4	20-40	0	0.0-2.0	0	
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
Urmafot-----	0-7	18-27	15-25	---	7.9-8.4	10-30	0	0	0	
	7-9	18-27	10-20	---	7.9-8.4	20-40	0	0	0	
	9-29	---	---	---	---	---	---	---	---	
	29-60	5-15	5.0-15	---	7.9-8.4	20-40	0	0.0-2.0	0	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
0561: Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5
	16-34	---	---	---	---	---	---	---	---
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12
Urmafot-----	0-7	18-27	15-25	---	7.9-8.4	10-30	0	0	0
	7-16	18-27	10-20	---	7.9-8.4	20-40	0	0	0
	16-29	---	---	---	---	---	---	---	---
	29-60	5-15	5.0-15	---	7.9-8.4	20-40	0	0.0-2.0	0
Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5
	16-34	---	---	---	---	---	---	---	---
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12
0562: Bobs-----	0-8	10-20	10-20	---	7.9-9.0	25-35	0	0	0
	8-13	10-20	8.0-18	---	7.9-9.0	35-45	0	0.0-2.0	1-5
	13-17	---	---	---	---	---	---	---	---
0563: Bobs-----	0-8	10-20	10-20	---	7.9-9.0	20-30	0	0	0
	8-13	10-20	8.0-18	---	7.9-9.0	35-45	0	0.0-2.0	1-5
	13-17	---	---	---	---	---	---	---	---
Pyrat-----	0-6	10-18	5.0-15	---	7.9-9.0	1-10	0	0.0-2.0	0
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	21-42	10-18	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0
0575: Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0
	14-18	---	---	---	---	---	---	---	---
Cavehill-----	0-12	18-27	15-30	---	7.9-9.0	10-20	0	0	0
	12-30	18-27	10-20	---	7.9-9.0	30-50	0	0.0-2.0	0
	30-34	---	---	---	---	---	---	---	---
Rock Outcrop----	---	---	---	---	---	---	---	---	---
0576: Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0
	14-18	---	---	---	---	---	---	---	---
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5
	14-18	---	---	---	---	---	---	---	---
Onkeyo-----	0-8	18-27	10-25	---	7.4-8.4	1-10	0	0	0
	8-17	25-35	10-20	---	7.4-8.4	15-25	0	0.0-2.0	0
	17-21	---	---	---	---	---	---	---	---
0582: Sheffit-----	0-10	10-18	5.0-10	---	8.5-9.6	10-15	0	2.0-4.0	1-5
	10-60	35-50	20-30	---	8.5-9.6	20-35	1-5	8.0-16.0	13-45
Sheffit-----	0-4	10-18	5.0-10	---	8.5-9.6	10-15	0	4.0-8.0	5-12
	4-60	35-50	20-30	---	8.5-9.6	20-35	1-5	8.0-16.0	13-45

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm		
Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-62	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
0590: Upatad-----	0-1	18-27	15-25	---	7.4-7.8	0	0	0	0	
	1-14	27-35	25-35	---	7.4-8.4	1-10	0	0	0	
	14-18	---	---	---	---	---	---	---	---	
Segura-----	0-2	15-20	10-15	---	6.6-8.4	0	0	0	0	
	2-11	20-35	15-25	---	6.6-8.4	0	0	0	0	
	11-15	---	---	---	---	---	---	---	---	
0600: Onkeyo-----	0-8	18-27	10-25	---	7.4-8.4	1-10	0	0	0	
	8-17	25-35	10-20	---	7.4-8.4	15-25	0	0.0-2.0	0	
	17-21	---	---	---	---	---	---	---	---	
Amene-----	0-12	20-27	10-25	---	7.4-9.0	10-20	0	0.0-2.0	0	
	12-18	18-27	10-20	---	7.9-9.0	35-45	0	0.0-2.0	0	
	18-22	---	---	---	---	---	---	---	---	
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0	
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0	
	14-18	---	---	---	---	---	---	---	---	
0610: Wintermute-----	0-3	8-18	5.0-15	---	7.9-8.4	5-10	0	0	1-5	
	3-15	8-18	5.0-15	---	7.9-9.0	5-15	0	0	1-5	
	15-53	8-18	5.0-15	---	7.9-9.0	15-35	0	0	1-12	
	53-60	27-35	10-20	---	7.9-9.0	15-35	0	0	1-12	
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	1-5	
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0.0-2.0	13-30	
	18-27	---	---	---	---	---	---	---	---	
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0.0-2.0	13-30	
0614: Wintermute-----	0-3	12-18	8.0-15	---	7.9-8.4	1-10	0	0	1-5	
	3-15	8-18	5.0-15	---	7.9-9.0	5-15	0	0	1-5	
	15-53	8-18	5.0-15	---	7.9-9.0	15-35	0	0	1-12	
	53-60	27-35	10-20	---	7.9-9.0	15-35	0	0	1-12	
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	1-5	
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0.0-2.0	13-30	
	18-27	---	---	---	---	---	---	---	---	
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0.0-2.0	13-30	
Zerk-----	0-2	12-17	5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5	
	2-16	12-17	5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12	
	16-60	0-10	1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12	
0617: Wintermute-----	0-3	8-18	5.0-15	---	7.9-8.4	5-10	0	0	1-5	
	3-15	8-18	5.0-15	---	7.9-9.0	5-15	0	0	1-5	
	15-53	8-18	5.0-15	---	7.9-9.0	15-35	0	0	1-12	
	53-60	27-35	10-20	---	7.9-9.0	15-35	0	0	1-12	
Zerk-----	0-2	12-17	5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5	
	2-16	12-17	5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12	
	16-60	0-10	1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12	
Loray-----	0-12	10-20	5.0-15	---	7.9-9.0	5-15	0	0.0-2.0	1-5	
	12-60	0-8	1.0-8.0	---	7.9-9.0	5-20	0	0.0-4.0	5-12	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
0620:										
Atlow-----	0-5	15-25	10-25	---	7.4-8.4	0	0	0	0	0
	5-18	27-35	15-30	---	7.9-9.0	0-5	0	0	0.0-2.0	0
	18-22	---	---	---	---	---	---	---	---	---
Atlow-----	0-5	15-25	10-25	---	7.4-8.4	0	0	0	0	0
	5-18	27-35	15-30	---	7.9-9.0	0-5	0	0	0.0-2.0	0
	18-22	---	---	---	---	---	---	---	---	---
0631:										
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	0	1-5
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0	0.0-2.0	13-30
	18-27	---	---	---	---	---	---	---	---	---
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0	0.0-2.0	13-30
Wintermute-----	0-3	8-18	5.0-15	---	7.9-8.4	5-10	0	0	0	1-5
	3-15	8-18	5.0-15	---	7.9-9.0	5-15	0	0	0	1-5
	15-53	8-18	5.0-15	---	7.9-9.0	15-35	0	0	0	1-12
	53-60	27-35	10-20	---	7.9-9.0	15-35	0	0	0	1-12
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	0
0632:										
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	0	1-5
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0	0.0-2.0	13-30
	18-27	---	---	---	---	---	---	---	---	---
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0	0.0-2.0	13-30
Zafod-----	0-7	5-15	1.0-10	---	7.9-8.4	1-5	0	0	0	0
	7-28	5-15	1.0-5.0	---	8.5-9.0	5-10	0	0	0	1-5
	28-38	---	---	---	---	---	---	---	---	---
	38-60	2-8	0.0-5.0	---	7.9-9.0	5-10	0	0	0	1-5
0634:										
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	0	1-5
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0	0.0-2.0	13-30
	18-27	---	---	---	---	---	---	---	---	---
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0	0.0-2.0	13-30
Shabliss-----	0-2	10-18	10-20	---	7.9-8.4	1-10	0	0	0.0-2.0	1-5
	2-15	5-15	5.0-15	---	6.6-9.0	5-25	0	0	0.0-4.0	5-12
	15-31	---	---	---	---	---	---	---	---	---
	31-60	0-5	2.0-10	---	7.9-9.6	10-30	0	0	4.0-8.0	13-30
Izar-----	0-3	18-25	15-20	---	7.4-8.4	1-10	0	0	0.0-2.0	0
	3-12	18-25	10-15	---	7.4-8.4	5-30	0	0	0.0-2.0	0
	12-16	---	---	---	---	---	---	---	---	---
0636:										
Eastwell-----	0-5	10-15	5.0-15	---	8.5-9.0	0-5	0	0	0	1-5
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0	0.0-2.0	13-30
	18-27	---	---	---	---	---	---	---	---	---
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0	0.0-2.0	13-30
Hundraw-----	0-5	8-18	5.0-15	---	7.9-8.4	5-10	0	0	0.0-2.0	0
	5-10	8-18	5.0-15	---	7.9-8.4	5-15	0	0	0.0-2.0	0
	10-14	---	---	---	---	---	---	---	---	---
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	0

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay		Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g		pH	Pct	Pct	mmhos/cm		
Pioche-----	0-2	5-15	10-20	---	6.6-7.8	0	0	0	0	0	
	2-12	35-50	25-35	---	6.6-7.8	0	0	0	0	0	
	12-16	---	---	---	---	---	---	---	---	---	
Tarnach-----	0-3	18-27	15-25	---	7.9-9.0	5-10	0	0.0-2.0	0	0	
	3-12	18-27	15-25	---	7.9-9.0	15-25	0	0.0-2.0	0	0	
	12-16	---	---	---	---	---	---	---	---	---	
0760:											
Playas-----	0-6	27-40	20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45	13-45	
	6-60	35-70	20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45	13-45	
0761:											
Umberland-----	0-5	40-50	25-30	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	5-60	35-50	20-30	---	8.5-9.6	10-25	1-5	4.0-16.0	31-90	31-90	
Umberland-----	0-15	40-45	25-29	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	15-60	35-50	22-32	---	8.5-9.6	10-25	1-5	4.0-16.0	46-90	46-90	
0762:											
Umberland-----	0-5	40-50	25-30	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	5-60	35-50	20-30	---	8.5-9.6	10-25	1-5	4.0-16.0	31-90	31-90	
Playas-----	0-6	27-40	20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45	13-45	
	6-60	35-70	20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45	13-45	
0763:											
Equis-----	0-6	40-50	20-25	---	8.5-9.6	35-45	0	8.0-16.0	20-70	20-70	
	6-24	40-50	15-25	---	8.5-9.6	45-65	1-2	8.0-16.0	5-70	5-70	
	24-41	30-45	10-20	---	8.5-9.6	45-65	1-2	4.0-8.0	1-5	1-5	
	41-60	20-45	10-20	---	8.5-9.0	40-60	1-2	0.0-4.0	1-5	1-5	
Umberland-----	0-15	40-45	25-29	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	15-60	35-50	22-32	---	8.5-9.6	10-25	1-5	4.0-16.0	46-90	46-90	
Duffer-----	0-25	27-35	15-30	---	7.9-9.6	20-40	1-2	8.0-16.0	31-45	31-45	
	25-60	20-35	10-20	---	7.9-9.6	40-60	1-2	16.0-32.0	46-90	46-90	
0764:											
Umberland-----	0-15	35-40	22-26	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	15-60	35-50	22-32	---	8.5-9.6	10-25	1-5	4.0-16.0	46-90	46-90	
Rubylake-----	0-7	27-35	15-30	---	8.5-9.0	30-40	0	4.0-8.0	5-12	5-12	
	7-23	18-27	15-20	---	8.5-9.6	40-50	0	2.0-8.0	1-5	1-5	
	23-55	18-27	15-20	---	8.5-9.6	40-50	0-1	2.0-8.0	1-5	1-5	
	55-60	25-35	15-25	---	8.5-9.6	50-70	1-2	2.0-4.0	1-5	1-5	
Orupa-----	0-6	35-40	25-40	---	7.9-9.0	15-30	0	0.0-4.0	5-12	5-12	
	6-60	35-45	20-35	---	7.9-9.0	20-30	1-2	0.0-8.0	5-12	5-12	
0765:											
Umberland-----	0-5	40-50	25-30	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	5-60	35-50	20-30	---	8.5-9.6	10-25	1-5	4.0-16.0	31-90	31-90	
Umberland-----	0-15	40-45	25-29	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	15-60	35-50	22-32	---	8.5-9.6	10-25	1-5	4.0-16.0	46-90	46-90	
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-32.0	46-99	46-99	
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12	1-12	
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5	1-5	
0767:											
Umberland-----	0-15	40-45	25-29	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	15-60	35-50	22-32	---	8.5-9.6	10-25	1-5	4.0-16.0	46-90	46-90	
Umberland-----	0-5	40-50	25-30	---	9.1-9.6	10-25	0	16.0-32.0	46-90	46-90	
	5-60	35-50	20-30	---	8.5-9.6	10-25	1-5	4.0-16.0	31-90	31-90	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Orupa-----	0-6	40-55		30-50	---	7.9-9.0	15-30	0	0.0-4.0	5-12
	6-60	35-45		20-35	---	7.9-9.0	20-30	1-2	0.0-8.0	5-12
0781: Mysol-----	0-5	27-35		20-25	---	8.5-9.6	5-10	0-1	0.0-4.0	1-12
	5-17	20-35		10-20	---	8.5-9.0	1-5	0-1	0.0-4.0	1-12
	17-31	20-35		10-20	---	7.9-9.0	5-15	0-1	8.0-16.0	13-30
	31-60	2-8		0.0-5.0	---	7.9-8.4	5-15	0-1	4.0-16.0	13-30
Benin-----	0-7	15-25		10-15	---	7.9-9.0	1-5	0	8.0-16.0	0-13
	7-60	40-50		25-30	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50
Wendane-----	0-8	27-35		25-35	---	7.9-9.0	5-15	0	16.0-32.0	46-99
	8-42	15-25		15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35		25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5
0800: Mazuma-----	0-15	10-14		5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12
	15-60	5-15		2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45
Toano-----	0-9	8-15		5.0-15	---	7.9-9.0	10-20	0	0.0-2.0	0-2
	9-27	8-15		5.0-15	---	7.9-9.0	15-30	0-1	0.0-4.0	0-2
	27-60	8-15		5.0-15	---	7.9-9.0	15-30	0-1	8.0-16.0	1-12
0801: Mazuma-----	0-15	10-14		5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12
	15-60	5-15		2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45
Zerk-----	0-2	12-17		5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5
	2-16	12-17		5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12
	16-60	0-10		1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12
Okan-----	0-8	8-18		5.0-15	---	7.9-8.4	1-5	0	0	0
	8-38	8-18		5.0-10	---	7.9-8.4	5-15	0	0	0
	38-60	4-8		1.0-5.0	---	8.5-9.0	5-15	0	0	0
0804: Mazuma-----	0-15	10-14		5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12
	15-60	5-15		2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45
Kawich-----	0-2	0-5		1.0-5.0	---	8.5-9.6	1-5	1-5	4.0-8.0	1-5
	2-60	0-5		1.0-5.0	---	8.5-9.6	1-10	1-5	4.0-8.0	1-5
Playas-----	0-6	27-40		20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45
	6-60	35-70		20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45
0807: Mazuma-----	0-15	10-14		5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12
	15-60	5-15		2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45
Kunzler-----	0-5	12-20		7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13
	5-48	10-18		4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30
	48-60	10-18		4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60
Zerk-----	0-2	12-17		5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5
	2-16	12-17		5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12
	16-60	0-10		1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12
0823: Kunzler-----	0-16	12-20		7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13
	16-48	10-18		4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30
	48-60	10-18		4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct								
Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	
Blimo-----	0-8	12-18	10-20	---	7.9-8.4	5-15	0	0	0	
	8-21	12-18	10-15	---	7.9-8.4	5-15	0	2.0-4.0	1-5	
	21-36	12-18	10-15	---	7.9-9.0	5-15	0	2.0-4.0	5-12	
	36-60	12-18	10-15	---	7.9-9.0	5-15	1-5	2.0-4.0	5-12	
0824: Kunzler-----	0-16	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13	
16-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30		
48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60		
Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
0827: Kunzler-----	0-16	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13	
16-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30		
48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60		
James Canyon----	0-8	10-15	10-20	---	6.1-8.4	0	0	0.0-2.0	0	
	8-33	18-27	20-30	---	6.1-8.4	0	0	0.0-2.0	0	
	33-60	10-15	10-15	---	6.1-8.4	0	0	0.0-2.0	0	
James Canyon----	0-31	15-25	15-25	---	6.1-7.3	0	0	0	0	
	31-60	20-27	15-25	---	6.1-7.3	0	0	0	0	
0828: Kunzler-----	0-16	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13	
16-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30		
48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60		
Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-32.0	46-99	
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12	
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5	
0830: Pharo-----	0-13	15-20	15-25	---	7.4-8.4	5-15	0	0	0	
13-36	10-20	10-15	---	7.9-9.0	40-55	0	0	0		
36-60	2-8	5.0-10	---	7.9-9.0	30-40	0	0	0		
Kzin-----	0-3	15-25	10-25	---	7.9-9.0	15-25	0	0.0-2.0	1-5	
	3-9	15-25	10-20	---	7.9-9.0	15-30	0	0.0-2.0	1-5	
	9-13	---	---	---	---	---	---	---	---	
Pharo-----	0-13	15-20	15-25	---	7.4-8.4	5-15	0	0	0	
	13-36	10-20	10-15	---	7.9-9.0	40-55	0	0	0	
	36-60	2-8	5.0-10	---	7.9-9.0	30-40	0	0	0	
0842: Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12		
28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90		
32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180		

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct								
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
0852: Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5	
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	
	16-34	---	---	---	---	---	---	---	---	
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	
Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	
Shabliss-----	0-2	10-18	10-20	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	2-15	5-15	5.0-15	---	6.6-9.0	5-25	0	0.0-4.0	5-12	
	15-31	---	---	---	---	---	---	---	---	
	31-60	0-5	2.0-10	---	7.9-9.6	10-30	0	4.0-8.0	13-30	
0854: Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5	
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	
	16-34	---	---	---	---	---	---	---	---	
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	
Automal-----	0-8	15-25	15-25	---	7.9-9.0	15-20	0	0	0	
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5	
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30	
Shabliss-----	0-2	10-18	10-20	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	2-15	5-15	5.0-15	---	6.6-9.0	5-25	0	0.0-4.0	5-12	
	15-31	---	---	---	---	---	---	---	---	
	31-60	0-5	2.0-10	---	7.9-9.6	10-30	0	4.0-8.0	13-30	
0856: Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5	
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	
	16-34	---	---	---	---	---	---	---	---	
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	
Parisa-----	0-5	8-18	5.0-15	---	7.9-9.0	1-5	0	0	0	
	5-36	8-18	5.0-15	---	7.9-9.0	15-40	0	0	0	
	36-60	---	---	---	---	---	---	---	---	
0857: Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5	
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	
	16-34	---	---	---	---	---	---	---	---	
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	
Shabliss-----	0-2	10-18	10-20	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	2-15	5-15	5.0-15	---	6.6-9.0	5-25	0	0.0-4.0	5-12	
	15-31	---	---	---	---	---	---	---	---	
	31-60	0-5	2.0-10	---	7.9-9.6	10-30	0	4.0-8.0	13-30	
Linoyer-----	0-9	12-18	5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0	
	9-60	12-18	5.0-15	---	7.9-9.0	10-30	0	0.0-2.0	0	
0858: Palinor-----	0-8	10-18	5.0-15	---	7.9-9.0	15-25	0	0	1-5	
	8-16	10-18	5.0-10	---	7.9-9.0	20-40	0	2.0-4.0	1-5	
	16-34	---	---	---	---	---	---	---	---	
	34-60	2-8	0.0-5.0	---	7.9-9.0	25-45	0	0	1-12	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Automal-----	0-8	15-25		15-25	---	7.9-9.0	15-20	0	0	0
	8-49	10-20		10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5
	49-60	5-15		5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30
Linoyer-----	0-9	12-18		5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0
	9-60	12-18		5.0-15	---	7.9-9.0	10-30	0	0.0-2.0	0
0870: Theriot-----	0-7	8-15		5.0-10	---	7.9-9.6	40-60	0	0.0-4.0	1-5
	7-18	5-14		1.0-10	---	7.9-9.6	40-60	0	0.0-4.0	1-5
	18-22	---		---	---	---	---	---	---	---
Zimbob-----	0-2	10-18		5.0-10	---	7.9-9.0	50-70	0	0	1-5
	2-11	10-18		5.0-10	---	7.9-9.0	50-70	0	0	1-5
	11-15	---		---	---	---	---	---	---	---
0880: Duffer-----	0-4	20-27		10-20	---	7.9-9.6	20-40	1-2	8.0-16.0	46-90
	4-60	20-35		10-20	---	7.9-9.6	40-60	1-5	8.0-16.0	13-30
Duffer-----	0-25	27-35		15-30	---	7.9-9.6	20-40	1-2	4.0-16.0	31-45
	25-60	20-35		10-20	---	7.9-9.6	40-60	1-2	16.0-32.0	46-90
Kolda-----	0-4	18-25		15-30	---	8.5-9.6	1-5	0	4.0-8.0	0
	4-11	22-27		15-30	---	8.5-9.6	1-10	0	4.0-8.0	0
	11-60	40-50		25-40	---	8.5-9.6	10-40	0	4.0-8.0	0
0881: Duffer-----	0-4	20-27		10-20	---	7.9-9.6	20-40	1-2	8.0-16.0	46-90
	4-60	20-35		10-20	---	7.9-9.6	40-60	1-5	8.0-16.0	13-30
Kunzler-----	0-16	12-20		7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13
	16-48	10-18		4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30
	48-60	10-18		4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60
0882: Duffer-----	0-25	27-35		15-30	---	7.9-9.6	20-40	1-2	4.0-16.0	31-45
	25-60	20-35		10-20	---	7.9-9.6	40-60	1-2	16.0-32.0	46-90
Kolda-----	0-4	18-25		15-30	---	8.5-9.6	1-5	0	4.0-8.0	0
	4-11	22-27		15-30	---	8.5-9.6	1-10	0	4.0-8.0	0
	11-60	40-50		25-40	---	8.5-9.6	10-40	0	4.0-8.0	0
0894: Zerk-----	0-2	12-17		5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5
	2-16	12-17		5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12
	16-60	0-10		1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12
Threese-----	0-3	10-18		5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	3-14	10-20		5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5
	14-46	4-10		1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12
	46-60	2-8		1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12
Mazuma-----	0-15	10-14		5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12
	15-60	5-15		2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45
0900: Zerk-----	0-2	12-17		5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5
	2-16	12-17		5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12
	16-60	0-10		1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12
Automal-----	0-8	15-25		15-25	---	7.9-9.0	15-20	0	0	0
	8-49	10-20		10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5
	49-60	5-15		5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30
Linoyer-----	0-9	12-18		5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0
	9-60	12-18		5.0-15	---	7.9-9.0	10-30	0	0.0-2.0	0

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct								
0910: Ragtown-----	0-16	27-35	15-30	---	8.5-9.6	10-30	0	0.0-4.0	13-30	
	16-60	35-60	20-50	---	8.5-9.6	20-40	0-2	16.0-32.0	46-90	
Ragtown-----	0-5	20-27	10-20	---	8.5-9.6	10-30	0	4.0-8.0	1-5	
	5-26	25-35	15-30	---	8.5-9.6	10-30	0	16.0-32.0	13-45	
	26-60	35-45	20-40	---	8.5-9.6	20-40	0-2	16.0-32.0	31-90	
0912: Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
0914: Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
Benin-----	0-7	15-25	10-15	---	7.9-9.0	1-5	0	8.0-16.0	0-13	
	7-60	40-50	25-30	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50	
Sheffit-----	0-4	10-18	5.0-10	---	8.5-9.6	10-15	0	4.0-8.0	5-12	
	4-60	35-50	20-30	---	8.5-9.6	20-35	1-5	8.0-16.0	13-45	
0917: Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
Sheffit-----	0-4	17-27	10-20	---	8.5-9.6	15-20	0	4.0-8.0	5-12	
	4-60	35-50	20-30	---	8.5-9.6	20-35	1-5	8.0-16.0	13-45	
Ragtown-----	0-16	27-35	15-30	---	8.5-9.6	10-30	0	0.0-4.0	13-30	
	16-60	35-60	20-50	---	8.5-9.6	20-40	0-2	16.0-32.0	46-90	
0918: Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
Zorravista-----	0-6	0-5	0.0-5.0	---	7.9-9.0	1-10	0	0	0	
	6-60	0-5	0.0-5.0	---	7.4-9.0	1-10	0	0.0-2.0	0	
Playas-----	0-6	27-40	20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45	
	6-60	35-70	20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45	
0930: Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	
Toano-----	0-9	8-15	5.0-15	---	7.9-9.0	10-20	0	0.0-2.0	0-2	
	9-27	8-15	5.0-15	---	7.9-9.0	15-30	0-1	0.0-4.0	0-2	
	27-60	8-15	5.0-15	---	7.9-9.0	15-30	0-1	8.0-16.0	1-12	
Loray-----	0-12	10-15	5.0-15	---	7.4-8.4	5-15	0	0.0-4.0	1-5	
	12-60	0-8	1.0-8.0	---	7.9-9.0	5-20	0	0.0-4.0	5-12	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
0932: Okan-----	0-8 8-38 38-60	8-18 8-18 4-8	5.0-15 5.0-10 1.0-5.0	--- --- ---	7.9-8.4 7.9-8.4 8.5-9.0	1-5 5-15 5-15	0 0 0	0 0 0	0 0 0
Pyrat-----	0-6 6-14 14-21 21-42 42-60	12-20 10-18 10-18 10-18 5-10	5.0-15 5.0-10 5.0-10 1.0-10 1.0-10	--- --- --- --- ---	7.9-8.4 7.9-8.4 7.9-9.0 7.9-9.0 7.9-9.0	1-10 5-15 15-25 15-25 10-15	0 0 0 0 0	2.0-4.0 2.0-4.0 2.0-4.0 2.0-4.0 2.0-4.0	0 0 0 0 0
0941: Sheffit-----	0-4 4-60	17-27 35-50	10-20 20-30	--- ---	8.5-9.6 8.5-9.6	15-20 20-35	0 1-5	4.0-8.0 8.0-16.0	5-12 13-45
Sheffit-----	0-10 10-60	10-18 35-50	5.0-10 20-30	--- ---	8.5-9.6 8.5-9.6	10-15 20-35	0 1-5	2.0-4.0 8.0-16.0	1-5 13-45
Zorravista-----	0-6 6-60	0-5 0-5	0.0-5.0 0.0-5.0	--- ---	7.9-9.0 7.4-9.0	1-10 1-10	0 0	0 0.0-2.0	0 0
0943: Sheffit-----	0-4 4-60	17-27 35-50	10-20 20-30	--- ---	8.5-9.6 8.5-9.6	15-20 20-35	0 1-5	4.0-8.0 8.0-16.0	5-12 13-45
Umberland-----	0-15 15-60	40-45 35-50	25-29 22-32	--- ---	9.1-9.6 8.5-9.6	10-25 10-25	0 1-5	16.0-32.0 4.0-16.0	46-90 46-90
0960: Gravier-----	0-3 3-60	8-18 8-18	5.0-15 5.0-15	--- ---	7.9-9.0 7.9-9.0	5-10 15-30	0 0	0.0-4.0 4.0-8.0	1-5 13-30
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	5.0-10 5.0-10 1.0-5.0	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	5-15 10-20 15-35	0 0 0	0.0-2.0 0.0-2.0 0.0-2.0	1-5 5-12 5-12
0961: Gravier-----	0-4 4-50 50-60	2-8 8-18 0-5	1.0-5.0 5.0-15 1.0-5.0	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	1-5 15-30 5-20	0 0 0	0.0-4.0 4.0-8.0 0.0-4.0	0 0 0
Piltdown-----	0-10 10-60	10-18 10-18	5.0-15 5.0-15	--- ---	7.4-9.0 7.4-9.0	1-5 1-10	0 0	0.0-4.0 2.0-8.0	0 1-5
Zerk-----	0-2 2-16 16-60	12-17 12-17 0-10	5.0-10 5.0-10 1.0-5.0	--- --- ---	7.9-9.0 7.9-9.0 7.9-9.0	5-15 10-20 15-35	0 0 0	0.0-2.0 0.0-2.0 0.0-2.0	1-5 5-12 5-12
0972: Zimbob-----	0-2 2-11 11-15	10-18 10-18 ---	5.0-10 5.0-10 ---	--- --- ---	7.9-9.0 7.9-9.0 ---	50-70 50-70 ---	0 0 ---	0 0 ---	1-5 1-5 ---
Zimbob-----	0-1 1-6 6-10	10-18 10-18 ---	5.0-10 5.0-10 ---	--- --- ---	7.9-9.0 7.9-9.0 ---	50-70 50-70 ---	0 0 ---	0 0 ---	1-5 1-5 ---
Pookaloo-----	0-2 2-14 14-18	10-18 10-18 ---	10-20 10-20 ---	--- --- ---	7.9-8.4 7.9-8.4 ---	20-30 30-50 ---	0 0 ---	0 0 ---	0 0 ---
0974: Zimbob-----	0-2 2-11 11-15	10-18 10-18 ---	5.0-10 5.0-10 ---	--- --- ---	7.9-9.0 7.9-9.0 ---	50-70 50-70 ---	0 0 ---	0 0 ---	1-5 1-5 ---

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct								
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0	
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0	
	14-18	---	---	---	---	---	---	---	---	
0975: Zimbob-----	0-2	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	2-11	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	11-15	---	---	---	---	---	---	---	---	
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-12	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	12-16	---	---	---	---	---	---	---	---	
0980: Onkeyo-----	0-8	18-27	10-25	---	7.4-8.4	1-10	0	0	0	
	8-17	25-35	10-20	---	7.4-8.4	15-25	0	0.0-2.0	0	
	17-21	---	---	---	---	---	---	---	---	
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0	
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0	
	14-18	---	---	---	---	---	---	---	---	
Zimbob-----	0-2	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	2-11	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	11-15	---	---	---	---	---	---	---	---	
0990: Hyzen-----	0-3	8-18	5.0-20	---	7.9-8.4	20-35	0	0	0	
	3-13	10-18	5.0-15	---	7.9-8.4	30-60	0	0	0	
	13-17	---	---	---	---	---	---	---	---	
Zimbob-----	0-1	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	1-6	10-18	5.0-10	---	7.9-9.0	50-70	0	0	1-5	
	6-10	---	---	---	---	---	---	---	---	
0991: Hyzen-----	0-3	8-18	5.0-20	---	7.9-8.4	20-35	0	0	0	
	3-13	10-18	5.0-15	---	7.9-8.4	30-60	0	0	0	
	13-17	---	---	---	---	---	---	---	---	
Cavehill-----	0-12	18-27	15-30	---	7.9-9.0	10-20	0	0	0	
	12-30	18-27	10-20	---	7.9-9.0	30-50	0	0.0-2.0	0	
	30-34	---	---	---	---	---	---	---	---	
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
1000: Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	
Zerk-----	0-2	12-17	5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5	
	2-16	12-17	5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12	
	16-60	0-10	1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct								
1001:										
Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	1-5	
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0.0-2.0	13-30	
	18-27	---	---	---	---	---	---	---	---	
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0.0-2.0	13-30	
1002:										
Threese-----	0-3	4-10	5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	3-14	10-20	5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5	
	14-46	4-10	1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12	
	46-60	2-8	1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12	
Kunzler-----	0-5	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13	
	5-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30	
	48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60	
Threese-----	0-3	10-18	5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	3-14	10-20	5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5	
	14-46	4-10	1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12	
	46-60	2-8	1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12	
1003:										
Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	
Hundraw-----	0-5	8-18	5.0-15	---	7.9-8.4	5-10	0	0.0-2.0	0	
	5-10	8-18	5.0-15	---	7.9-8.4	5-15	0	0.0-2.0	0	
	10-14	---	---	---	---	---	---	---	---	
Tulase-----	0-2	8-18	10-15	---	7.9-8.4	5-10	0	0.0-2.0	0	
	2-60	8-18	5.0-15	---	7.9-9.0	10-15	0	0.0-2.0	1-5	
1004:										
Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	
Parisa-----	0-5	8-18	5.0-15	---	7.9-9.0	1-5	0	0.0-2.0	1-5	
	5-36	8-18	5.0-15	---	7.9-9.0	15-40	0	0.0-2.0	5-12	
	36-55	---	---	---	---	---	---	---	---	
	55-60	0-8	1.0-5.0	---	7.9-9.0	15-30	0	2.0-8.0	13-30	
Tulase-----	0-2	8-18	10-15	---	7.9-8.4	5-10	0	0.0-2.0	0	
	2-60	8-18	5.0-15	---	7.9-9.0	10-15	0	0.0-2.0	1-5	
1005:										
Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0	
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0	
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0	
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Zerk-----	0-2	12-17	5.0-10	---	7.9-9.0	5-15	0	0.0-2.0	1-5
	2-16	12-17	5.0-10	---	7.9-9.0	10-20	0	0.0-2.0	5-12
	16-60	0-10	1.0-5.0	---	7.9-9.0	15-35	0	0.0-2.0	5-12
Parisa-----	0-5	8-18	5.0-15	---	7.9-9.0	1-5	0	0.0-2.0	1-5
	5-36	8-18	5.0-15	---	7.9-9.0	15-40	0	0.0-2.0	5-12
	36-55	---	---	---	---	---	---	---	---
	55-60	0-8	1.0-5.0	---	7.9-9.0	15-30	0	2.0-8.0	13-30
1006: Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0
Blimo-----	0-7	12-18	10-15	---	7.9-8.4	5-15	0	2.0-4.0	0
	7-25	12-18	10-15	---	7.9-9.0	20-30	0	2.0-4.0	1-5
	25-40	12-18	10-15	---	7.9-9.0	20-30	0	2.0-4.0	5-12
	40-60	4-12	1.0-10	---	7.9-9.0	10-20	1-5	2.0-4.0	5-12
1007: Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0
Parisa-----	0-5	8-18	5.0-15	---	7.9-9.0	1-5	0	0.0-2.0	1-5
	5-36	8-18	5.0-15	---	7.9-9.0	15-40	0	0.0-2.0	5-12
	36-55	---	---	---	---	---	---	---	---
	55-60	0-8	1.0-5.0	---	7.9-9.0	15-30	0	2.0-8.0	13-30
Automal-----	0-8	15-25	15-25	---	7.9-9.0	15-20	0	0	0
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30
1009: Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0
Tulase-----	0-2	8-18	10-15	---	7.9-8.4	5-10	0	0.0-2.0	0
	2-60	8-18	5.0-15	---	7.9-9.0	10-15	0	0.0-2.0	1-5
Wintermute-----	0-3	8-18	5.0-15	---	7.9-8.4	5-10	0	0	1-5
	3-15	8-18	5.0-15	---	7.9-9.0	5-15	0	0	1-5
	15-53	8-18	5.0-15	---	7.9-9.0	15-35	0	0	1-12
	53-60	27-35	10-20	---	7.9-9.0	15-35	0	0	1-12
1020: Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0
Eastwell-----	0-5	10-18	5.0-15	---	8.5-9.0	0-5	0	0	1-5
	5-18	10-27	5.0-20	---	8.5-9.0	5-10	0	0.0-2.0	13-30
	18-27	---	---	---	---	---	---	---	---
	27-60	10-20	5.0-15	---	8.5-9.6	15-30	0	0.0-2.0	13-30
Blimo-----	0-7	12-18	10-20	---	7.9-8.4	5-15	0	0	0
	7-25	12-18	10-15	---	7.9-9.0	20-30	0	2.0-4.0	1-5
	25-40	12-18	10-15	---	7.9-9.0	20-30	0	2.0-4.0	5-12
	40-60	4-12	1.0-10	---	7.9-9.0	10-20	1-5	2.0-4.0	5-12

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
1023:										
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	0
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	0
Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
1030:										
Segura-----	0-2	20-27	15-20	---	6.6-8.4	0	0	0	0	0
	2-11	20-35	15-25	---	6.6-8.4	0	0	0	0	0
	11-15	---	---	---	---	---	---	---	---	---
Bullump-----	0-10	15-25	15-30	---	6.1-7.8	0	0	0	0	0
	10-49	25-35	10-25	---	6.1-7.8	0	0	0	0	0
	49-53	---	---	---	---	---	---	---	---	---
Hutchley-----	0-4	12-25	11-21	---	6.6-7.8	0	0	0	0	0
	4-13	28-35	17-22	---	6.6-7.8	0	0	0	0	0
	13-17	---	---	---	---	---	---	---	---	---
1040:										
Segura-----	0-2	15-20	10-15	---	6.6-8.4	0	0	0	0	0
	2-11	20-35	15-25	---	6.6-8.4	0	0	0	0	0
	11-15	---	---	---	---	---	---	---	---	---
Pioche-----	0-2	8-12	10-20	---	6.6-7.8	0	0	0	0	0
	2-12	35-50	25-35	---	6.6-7.8	0	0	0	0	0
	12-16	---	---	---	---	---	---	---	---	---
Chen-----	0-3	20-27	15-25	---	6.1-7.8	0	0	0	0	0
	3-16	40-55	25-40	---	6.1-7.8	0	0	0	0	0
	16-20	---	---	---	---	---	---	---	---	---
1061:										
Pioche-----	0-2	8-12	10-20	---	6.6-7.8	0	0	0	0	0
	2-12	35-50	25-35	---	6.6-7.8	0	0	0	0	0
	12-16	---	---	---	---	---	---	---	---	---
Cucamungo-----	0-3	10-18	10-20	---	6.6-7.8	0	0	0	0	0
	3-14	20-30	15-25	---	6.6-8.4	0	0	0.0-2.0	0-1	
	14-19	---	---	---	---	---	---	---	---	---
Rock Outcrop---	---	---	---	---	---	---	---	---	---	---
1070:										
Zafod-----	0-7	5-15	1.0-10	---	7.9-8.4	1-5	0	0	0	0
	7-28	5-15	1.0-5.0	---	8.5-9.0	5-10	0	0	1-5	
	28-38	---	---	---	---	---	---	---	---	---
	38-60	2-8	0.0-5.0	---	7.9-9.0	5-10	0	0	1-5	
Automal-----	0-8	10-20	15-25	---	7.9-9.0	15-20	0	0	0	0
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5	
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30	
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0	0

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
1080: Cotant-----	0-2	27-40	25-35	---	6.6-7.8	0	0	0	0
	2-15	40-60	35-50	---	6.6-7.8	0	0	0	0
	15-19	---	---	---	---	---	---	---	---
Segura-----	0-2	15-20	10-15	---	6.6-8.4	0	0	0	0
	2-11	20-35	15-25	---	6.6-8.4	0	0	0	0
	11-15	---	---	---	---	---	---	---	---
1111: Parisa-----	0-5	8-18	5.0-15	---	7.9-9.0	1-5	0	0.0-2.0	1-5
	5-36	8-18	5.0-15	---	7.9-9.0	15-40	0	0.0-2.0	5-12
	36-55	---	---	---	---	---	---	---	---
	55-60	0-8	1.0-5.0	---	7.9-9.0	15-30	0	2.0-8.0	13-30
1120: Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0
Automal-----	0-8	15-25	15-25	---	7.9-9.0	15-20	0	0	0
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30
1150: Adobe-----	0-7	18-27	12-20	---	7.9-8.4	5-15	0	0	0
	7-11	18-27	12-20	---	7.9-8.4	35-45	0	0	0
	11-15	---	---	---	---	---	---	---	---
Wardbay-----	0-14	18-27	25-35	---	7.4-8.4	40-60	0	0	0
	14-55	18-27	5.0-15	---	7.9-8.4	40-60	0	0	0
	55-59	---	---	---	---	---	---	---	---
Haunchee-----	0-4	10-20	10-25	---	7.4-8.4	10-20	0	0	0
	4-11	10-20	5.0-20	---	7.9-9.0	30-50	0	0.0-2.0	1-13
	11-15	---	---	---	---	---	---	---	---
1161: Pharo-----	0-13	15-20	15-25	---	7.4-8.4	5-15	0	0	0
	13-36	10-20	10-15	---	7.9-9.0	40-55	0	0	0
	36-60	2-8	5.0-10	---	7.9-9.0	30-40	0	0	0
Bobs-----	0-8	10-20	10-20	---	7.9-9.0	20-30	0	0	0
	8-13	10-20	8.0-18	---	7.9-9.0	35-45	0	0.0-2.0	1-5
	13-17	---	---	---	---	---	---	---	---
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0
	14-18	---	---	---	---	---	---	---	---
1171: Pyrat-----	0-6	12-20	5.0-15	---	7.9-8.4	1-10	0	2.0-4.0	0
	6-14	10-18	5.0-10	---	7.9-8.4	5-15	0	2.0-4.0	0
	14-21	10-18	5.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	21-42	10-18	1.0-10	---	7.9-9.0	15-25	0	2.0-4.0	0
	42-60	5-10	1.0-10	---	7.9-9.0	10-15	0	2.0-4.0	0
Automal-----	0-8	18-25	15-25	---	7.9-9.0	15-20	0	0	0
	8-49	10-20	10-20	---	7.9-9.0	20-35	0	0.0-2.0	1-5
	49-60	5-15	5.0-10	---	7.9-9.0	15-30	0	8.0-16.0	13-30
Gravier-----	0-3	8-18	5.0-15	---	7.9-9.0	5-10	0	0.0-4.0	1-5
	3-60	8-18	5.0-15	---	7.9-9.0	15-30	0	4.0-8.0	13-30

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Atlow-----	0-5	15-25		10-25	---	7.4-8.4	0	0	0	0
	5-18	27-35		15-30	---	7.9-9.0	0-5	0	0.0-2.0	0
	18-22	---		---	---	---	---	---	---	---
Upatad-----	0-1	18-27		15-25	---	7.4-7.8	0	0	0	0
	1-12	27-35		25-35	---	7.4-8.4	1-10	0	0	0
	12-16	---		---	---	---	---	---	---	---
1191: Upatad-----	0-2	18-27		15-25	---	7.4-7.8	0	0	0	0
	2-14	27-35		25-35	---	7.4-8.4	1-10	0	0	0
	14-18	---		---	---	---	---	---	---	---
Pioche-----	0-2	8-12		10-20	---	6.6-7.8	0	0	0	0
	2-12	35-50		25-35	---	6.6-7.8	0	0	0	0
	12-16	---		---	---	---	---	---	---	---
Rock Outcrop---	---	---		---	---	---	---	---	---	---
1200: Hardol-----	0-13	18-27		10-25	---	7.4-8.4	1-10	0	0	0
	13-37	20-27		10-25	---	7.4-8.4	10-20	0	0	0
	37-60	20-27		10-20	---	7.9-8.4	15-25	0	0	0
Hardzem-----	0-5	10-20		5.0-15	---	7.4-7.8	0	0	0	0
	5-28	20-30		10-20	---	6.6-7.8	0	0	0	0
	28-55	---		---	---	---	---	---	---	---
Rock Outcrop---	---	---		---	---	---	---	---	---	---
1201: Hardol-----	0-13	18-27		10-25	---	7.4-8.4	1-10	0	0	0
	13-37	20-27		10-25	---	7.4-8.4	10-20	0	0	0
	37-60	20-27		10-20	---	7.9-8.4	15-25	0	0	0
Rock Outcrop---	---	---		---	---	---	---	---	---	---
Wardbay-----	0-14	18-27		25-35	---	7.4-8.4	40-60	0	0	0
	14-55	18-27		5.0-15	---	7.9-8.4	40-60	0	0	0
	55-59	---		---	---	---	---	---	---	---
1210: Blimo-----	0-8	12-18		10-20	---	7.9-8.4	5-15	0	0	0
	8-21	12-18		10-15	---	7.9-8.4	5-15	0	2.0-4.0	1-5
	21-36	12-18		10-15	---	7.9-9.0	5-15	0	2.0-4.0	5-12
	36-60	12-18		10-15	---	7.9-9.0	5-15	1-5	2.0-4.0	5-12
Kunzler-----	0-5	12-20		7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13
	5-48	10-18		4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30
	48-60	10-18		4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60
Linoyer-----	0-9	12-18		5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0
	9-60	12-18		5.0-15	---	7.9-9.0	10-30	0	0.0-2.0	0
1213: Blimo-----	0-8	12-18		10-15	---	7.9-8.4	5-15	0	0	0
	8-21	12-18		10-15	---	7.9-8.4	5-15	0	2.0-4.0	1-5
	21-36	12-18		10-15	---	7.9-9.0	5-15	0	2.0-4.0	5-12
	36-60	12-18		10-15	---	7.9-9.0	5-15	1-5	2.0-4.0	5-12
Threesee-----	0-3	10-20		5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	3-14	10-20		5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5
	14-46	4-10		1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12
	46-60	2-8		1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
1215:									
Blimo-----	0-8	12-18	10-15	---	7.9-8.4	5-15	0	0	0
	8-21	12-18	10-15	---	7.9-8.4	5-15	0	2.0-4.0	1-5
	21-36	12-18	10-15	---	7.9-9.0	5-15	0	2.0-4.0	5-12
	36-60	12-18	10-15	---	7.9-9.0	5-15	1-5	2.0-4.0	5-12
Zorravista-----	0-6	0-5	0.0-5.0	---	7.9-9.0	1-10	0	0	0
	6-60	0-5	0.0-5.0	---	7.4-9.0	1-10	0	0.0-2.0	0
1216:									
Blimo-----	0-8	12-18	10-15	---	7.9-8.4	5-15	0	0	0
	8-21	12-18	10-15	---	7.9-8.4	5-15	0	2.0-4.0	1-5
	21-36	12-18	10-15	---	7.9-9.0	5-15	0	2.0-4.0	5-12
	36-60	12-18	10-15	---	7.9-9.0	5-15	1-5	2.0-4.0	5-12
Idway-----	0-4	8-18	5.0-10	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	4-12	8-18	5.0-10	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	12-27	8-18	5.0-15	---	8.5-9.6	5-15	0	0.0-2.0	1-5
	27-60	2-8	1.0-5.0	---	8.5-9.6	1-10	0	0.0-2.0	1-5
Mazuma-----	0-15	10-14	5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12
	15-60	5-15	2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45
1220:									
Onkeyo-----	0-8	18-27	10-25	---	7.4-8.4	1-10	0	0	0
	8-17	25-35	10-20	---	7.4-8.4	15-25	0	0.0-2.0	0
	17-21	---	---	---	---	---	---	---	---
Adobe-----	0-7	18-27	12-20	---	7.9-8.4	5-15	0	0	0
	7-11	18-27	12-20	---	7.9-8.4	35-45	0	0	0
	11-15	---	---	---	---	---	---	---	---
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0
	14-18	---	---	---	---	---	---	---	---
1230:									
Hardzem-----	0-5	10-20	5.0-15	---	7.4-7.8	0	0	0	0
	5-28	20-30	10-20	---	6.6-7.8	0	0	0	0
	28-55	---	---	---	---	---	---	---	---
Haunchee-----	0-4	10-20	10-25	---	7.4-8.4	10-20	0	0	0
	4-11	10-20	5.0-20	---	7.9-9.0	30-50	0	0.0-2.0	1-13
	11-15	---	---	---	---	---	---	---	---
Wardbay-----	0-14	18-27	25-35	---	7.4-8.4	40-60	0	0	0
	14-55	18-27	5.0-15	---	7.9-8.4	40-60	0	0	0
	55-59	---	---	---	---	---	---	---	---
1240:									
Benin-----	0-7	30-40	15-25	---	7.9-9.0	1-5	0	8.0-16.0	0-13
	7-60	40-50	25-30	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50
Benin-----	0-7	15-25	10-15	---	7.9-9.0	1-5	0	8.0-16.0	0-13
	7-60	40-50	25-30	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50
1241:									
Benin-----	0-7	30-40	15-25	---	7.9-9.0	1-5	0	8.0-16.0	0-13
	7-60	40-50	25-30	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50
Playas-----	0-6	27-40	20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45
	6-60	35-70	20-40	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45
Benin-----	0-7	15-25	10-15	---	7.9-9.0	1-5	0	8.0-16.0	0-13
	7-60	40-50	25-30	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm		
1250: Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0	
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0	
	14-18	---	---	---	---	---	---	---	---	
1270: Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
Sheffit-----	0-4	17-27	10-20	---	8.5-9.6	15-20	0	4.0-8.0	5-12	
	4-60	35-50	20-30	---	8.5-9.6	20-35	1-5	8.0-16.0	13-45	
1271: Uvada-----	0-5	27-40	15-25	---	8.5-9.0	1-10	0	0.0-2.0	0-5	
	5-8	35-60	25-45	---	9.1-9.6	15-25	0	0.0-4.0	13-30	
	8-17	35-60	25-45	---	9.1-9.6	30-40	0	8.0-16.0	150-170	
	17-52	35-50	20-40	---	9.1-9.6	25-40	1-5	8.0-16.0	150-180	
	52-60	35-50	20-40	---	9.1-9.6	10-20	1-5	8.0-16.0	160-190	
Ragtown-----	0-16	27-35	15-30	---	8.5-9.6	10-30	0	0.0-4.0	13-30	
	16-60	35-60	20-50	---	8.5-9.6	20-40	0-2	16.0-32.0	46-90	
1272: Katelana-----	0-5	14-24	10-25	---	8.5-9.0	20-40	0	4.0-8.0	2-12	
	5-28	18-25	10-20	---	8.5-9.0	40-50	0	4.0-8.0	2-12	
	28-32	18-25	10-20	---	8.5-9.0	40-60	0	16.0-32.0	46-90	
	32-60	27-40	15-35	---	8.5-9.0	40-60	1-2	16.0-32.0	90-180	
Kawich-----	0-2	0-5	1.0-5.0	---	8.5-9.6	1-5	1-5	4.0-8.0	1-5	
	2-60	0-5	1.0-5.0	---	8.5-9.6	1-10	1-5	4.0-8.0	1-5	
1280: Sycomat-----	0-4	10-18	5.0-10	---	7.9-8.4	10-20	0	0.0-4.0	5-12	
	4-15	5-18	2.0-10	---	8.5-9.6	15-30	0	0.0-4.0	13-30	
	15-44	5-18	2.0-10	---	8.5-9.6	15-30	0	8.0-16.0	13-30	
	44-60	2-5	1.0-5.0	---	8.5-9.6	15-30	0	8.0-16.0	13-30	
Kunzler-----	0-16	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13	
	16-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30	
	48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60	
1281: Sycomat-----	0-4	10-18	5.0-10	---	7.9-8.4	10-20	0	0.0-4.0	5-12	
	4-15	5-18	2.0-10	---	8.5-9.6	15-30	0	0.0-4.0	13-30	
	15-44	5-18	2.0-10	---	8.5-9.6	15-30	0	8.0-16.0	13-30	
	44-60	2-5	1.0-5.0	---	8.5-9.6	15-30	0	8.0-16.0	13-30	
Mazuma-----	0-15	10-14	5.0-10	---	7.9-9.6	1-5	0	0.0-4.0	5-12	
	15-60	5-15	2.0-10	---	7.9-9.6	1-10	1-2	4.0-16.0	13-45	
1290: Heist-----	0-4	8-18	5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0-5	
	4-40	8-18	5.0-15	---	7.9-9.0	5-20	0	2.0-4.0	5-13	
	40-60	8-18	5.0-10	---	7.9-9.0	5-20	0	2.0-4.0	5-13	
Blimo-----	0-8	12-18	10-20	---	7.9-8.4	5-15	0	0	0	
	8-21	12-18	10-15	---	7.9-8.4	5-15	0	2.0-4.0	1-5	
	21-36	12-18	10-15	---	7.9-9.0	5-15	0	2.0-4.0	5-12	
	36-60	12-18	10-15	---	7.9-9.0	5-15	1-5	2.0-4.0	5-12	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
1300: Cavehill-----	0-12	18-27	15-30	---	---	7.9-9.0	10-20	0	0	0
	12-30	18-27	10-20	---	---	7.9-9.0	30-50	0	0.0-2.0	0
	30-34	---	---	---	---	---	---	---	---	---
Haunchee-----	0-4	10-20	10-25	---	---	7.4-8.4	10-20	0	0	0
	4-11	10-20	5.0-20	---	---	7.9-9.0	30-50	0	0.0-2.0	1-13
	11-15	---	---	---	---	---	---	---	---	---
Hardzem-----	0-5	10-20	5.0-15	---	---	7.4-7.8	0	0	0	0
	5-28	20-30	10-20	---	---	6.6-7.8	0	0	0	0
	28-55	---	---	---	---	---	---	---	---	---
1360: Toba-----	0-4	20-27	15-30	---	---	8.5-9.0	5-10	0	0.0-2.0	5-12
	4-14	27-35	15-35	---	---	8.5-9.0	15-25	0	0.0-2.0	13-45
	14-23	2-6	1.0-5.0	---	---	8.5-9.0	5-10	0	0.0-2.0	13-45
	23-60	0-4	1.0-5.0	---	---	7.9-8.4	1-5	0-1	0.0-2.0	13-45
Appian-----	0-3	15-20	9.0-13	---	---	7.9-9.0	1-5	0	0.0-4.0	5-12
	3-19	27-35	16-22	---	---	8.5-9.6	5-10	1-2	0.0-8.0	31-90
	19-27	2-5	1.0-5.0	---	---	7.4-9.6	0	0	0.0-2.0	0-5
	27-60	0-5	0.0-5.0	---	---	7.4-9.6	0	0	0.0-2.0	0-5
1370: Orupa-----	0-6	35-40	25-40	---	---	7.9-9.0	15-30	0	0.0-4.0	5-12
	6-60	35-45	20-35	---	---	7.9-9.0	20-30	1-2	0.0-8.0	5-12
Playas-----	0-6	27-40	20-40	---	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45
	6-60	35-70	20-40	---	---	8.5-9.0	1-10	1-10	4.0-16.0	13-45
Boofuss-----	0-10	40-50	25-40	---	---	8.5-9.6	1-10	0	16.0-32.0	50-80
	10-27	35-50	20-40	---	---	8.5-9.6	1-10	0	16.0-32.0	50-80
	27-60	8-15	5.0-15	---	---	8.5-9.0	1-10	1-2	0.0-2.0	10-30
1380: Hulderman-----	0-5	12-18	5.0-10	---	---	8.5-9.0	1-5	0	0.0-4.0	1-5
	5-18	20-25	15-25	---	---	7.9-8.4	0	0	0.0-2.0	1-5
	18-27	4-8	1.0-5.0	---	---	7.9-8.4	0	0	0	0
	27-60	0-4	1.0-5.0	---	---	7.9-8.4	0	0	0	0
Toba-----	0-4	20-27	15-30	---	---	8.5-9.0	5-10	0	0.0-2.0	5-12
	4-14	27-35	15-35	---	---	8.5-9.0	15-25	0	0.0-2.0	13-45
	14-23	2-6	1.0-5.0	---	---	8.5-9.0	5-10	0	0.0-2.0	13-45
	23-60	0-4	1.0-5.0	---	---	7.9-8.4	1-5	0-1	0.0-2.0	13-45
Benin-----	0-7	30-40	15-25	---	---	7.9-9.0	1-5	0	8.0-16.0	0-13
	7-60	40-50	25-30	---	---	7.9-9.6	1-10	1-5	4.0-16.0	13-50
1390: Wendane-----	0-8	15-25	15-25	---	---	8.5-9.6	5-15	0	16.0-32.0	46-99
	8-42	15-25	15-25	---	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35	25-40	---	---	7.9-9.6	5-15	0	16.0-32.0	1-5
Mysol-----	0-5	27-35	20-25	---	---	8.5-9.6	5-10	0-1	0.0-4.0	1-12
	5-17	20-35	10-20	---	---	8.5-9.0	1-5	0-1	0.0-4.0	1-12
	17-31	20-35	10-20	---	---	7.9-9.0	5-15	0-1	8.0-16.0	13-30
	31-60	2-8	0.0-5.0	---	---	7.9-8.4	5-15	0-1	4.0-16.0	13-30
Toba-----	0-4	20-27	15-30	---	---	8.5-9.0	5-10	0	0.0-2.0	5-12
	4-14	27-35	15-35	---	---	8.5-9.0	15-25	0	0.0-2.0	13-45
	14-23	2-6	1.0-5.0	---	---	8.5-9.0	5-10	0	0.0-2.0	13-45
	23-60	0-4	1.0-5.0	---	---	7.9-8.4	1-5	0-1	0.0-2.0	13-45

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Cation- exchange capacity meq/100g	Effective cation- exchange capacity meq/100g	Soil reaction pH	Calcium carbonate Pct	Gypsum Pct	Salinity mmhos/cm	Sodium adsorption ratio
	In	Pct							
1410: Threesee-----	0-3	10-20	5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	3-14	10-20	5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5
	14-46	4-10	1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12
	46-60	2-8	1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12
Tosser-----	0-5	5-15	4.0-13	---	7.4-8.4	3-15	0	0.0-2.0	0
	5-16	2-8	2.0-4.0	---	8.5-9.0	15-35	0	0.0-4.0	5-10
	16-26	2-8	2.0-4.0	---	8.5-9.0	1-3	0	0.0-4.0	5-10
	26-60	2-8	2.0-4.0	---	8.5-9.0	3-15	0	0.0-4.0	5-10
1411: Threesee-----	0-3	10-18	5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	3-14	10-20	5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5
	14-46	4-10	1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12
	46-60	2-8	1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12
Linoyer-----	0-9	12-18	5.0-15	---	7.9-9.0	10-20	0	0.0-2.0	0
	9-60	12-18	5.0-15	---	7.9-9.0	10-40	0	0.0-2.0	0
Okan-----	0-8	8-18	5.0-15	---	7.9-8.4	1-5	0	0	0
	8-38	8-18	5.0-10	---	7.9-8.4	5-15	0	0	0
	38-60	4-8	1.0-5.0	---	8.5-9.0	5-15	0	0	0
1412: Threesee-----	0-3	10-18	5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	3-14	10-20	5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5
	14-46	4-10	1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12
	46-60	2-8	1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12
Idway-----	0-4	4-10	1.0-10	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	4-12	8-18	5.0-10	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	12-27	8-18	5.0-15	---	8.5-9.6	5-15	0	0.0-2.0	1-5
	27-60	2-8	1.0-5.0	---	8.5-9.6	1-10	0	0.0-2.0	1-5
1413: Idway-----	0-4	8-18	5.0-10	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	4-12	8-18	5.0-10	---	7.9-9.0	1-10	0	0.0-2.0	1-5
	12-27	8-18	5.0-15	---	8.5-9.6	5-15	0	0.0-2.0	1-5
	27-60	2-8	1.0-5.0	---	8.5-9.6	1-10	0	0.0-2.0	1-5
Zorravista-----	0-6	0-5	0.0-5.0	---	7.9-9.0	1-10	0	0	0
	6-60	0-5	0.0-5.0	---	7.4-9.0	1-10	0	0.0-2.0	0
Kunzler-----	0-16	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13
	16-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30
	48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60
1414: Threesee-----	0-3	10-18	5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	3-14	10-20	5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5
	14-46	4-10	1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12
	46-60	2-8	1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12
Shantown-----	0-2	2-8	5.0-15	---	6.6-7.8	0	0	0	0
	2-11	2-8	5.0-15	---	6.6-7.8	0	0	0	0
	11-33	8-12	5.0-10	---	7.4-7.8	0	0	0	0
	33-49	2-8	5.0-10	---	7.4-7.8	0-5	0	0	0
	49-60	2-6	1.0-5.0	---	7.9-8.4	1-10	0	0.0-4.0	0
Kunzler-----	0-16	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13
	16-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	13-30
	48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm		
1430:										
Pookaloo-----	0-2	10-18	10-20	---	7.9-8.4	20-30	0	0	0	
	2-14	10-18	10-20	---	7.9-8.4	30-50	0	0	0	
	14-18	---	---	---	---	---	---	---	---	
Tecomar-----	0-2	18-27	10-20	---	7.9-9.0	10-30	0	0.0-2.0	0	
	2-14	20-27	5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5	
	14-18	---	---	---	---	---	---	---	---	
Rock Outcrop---	---	---	---	---	---	---	---	---	---	
1440:										
Boofuss-----	0-10	40-50	25-40	---	8.5-9.6	1-10	0	16.0-32.0	50-80	
	10-27	35-50	20-40	---	8.5-9.6	1-10	0	16.0-32.0	50-80	
	27-60	8-15	5.0-15	---	8.5-9.0	1-10	1-2	0.0-2.0	10-30	
Boofuss-----	0-10	40-50	25-40	---	8.5-9.6	1-10	0	16.0-32.0	50-80	
	10-27	35-50	20-40	---	8.5-9.6	1-10	0	16.0-32.0	50-80	
	27-60	8-15	5.0-15	---	8.5-9.0	1-10	1-2	0.0-2.0	10-30	
Equis-----	0-6	40-50	20-25	---	8.5-9.0	35-45	0	8.0-16.0	20-70	
	6-24	40-50	15-25	---	8.5-9.6	45-65	1-2	8.0-16.0	5-70	
	24-41	30-45	10-20	---	8.5-9.0	45-65	1-2	4.0-8.0	1-5	
	41-60	20-45	10-20	---	8.5-9.0	40-60	1-2	0.0-4.0	1-5	
1441:										
Boofuss-----	0-10	40-50	25-40	---	8.5-9.6	1-10	0	16.0-32.0	50-80	
	10-27	35-50	20-40	---	8.5-9.6	1-10	0	16.0-32.0	50-80	
	27-60	8-15	5.0-15	---	8.5-9.0	1-10	1-2	0.0-2.0	10-30	
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-32.0	46-99	
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12	
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5	
Umberland-----	0-15	40-45	25-29	---	9.1-9.6	10-25	0	16.0-32.0	46-90	
	15-60	35-50	22-32	---	8.5-9.6	10-25	1-5	4.0-16.0	46-90	
1450:										
Pilttdown-----	0-10	10-18	5.0-15	---	7.4-9.0	1-5	0	0.0-4.0	0	
	10-60	10-18	5.0-15	---	7.4-9.0	1-10	0	2.0-8.0	1-5	
Kawich-----	0-2	0-5	1.0-5.0	---	8.5-9.6	1-5	1-5	4.0-8.0	1-5	
	2-60	0-5	1.0-5.0	---	8.5-9.6	1-10	1-5	4.0-8.0	1-5	
1460:										
Tosser-----	0-10	5-15	4.0-13	---	7.4-8.4	3-15	0	0.0-2.0	0	
	10-16	2-8	2.0-4.0	---	8.5-9.0	15-35	0	0.0-4.0	5-10	
	16-26	2-8	2.0-4.0	---	8.5-9.0	1-3	0	0.0-4.0	5-10	
	26-60	2-8	2.0-4.0	---	8.5-9.0	3-15	0	0.0-4.0	5-10	
Threesee-----	0-3	10-20	5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5	
	3-14	10-20	5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5	
	14-46	4-10	1.0-5.0	---	7.9-9.0	20-30	0	0.0-2.0	5-12	
	46-60	2-8	1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12	
1471:										
Timpie-----	0-8	18-27	10-15	---	8.5-9.0	15-40	0	0.0-4.0	5-13	
	8-19	18-27	10-15	---	8.5-9.6	15-40	0	4.0-8.0	13-50	
	19-60	18-27	10-15	---	8.5-9.6	15-40	0	16.0-32.0	13-50	
Kunzler-----	0-5	12-20	7.0-15	---	7.9-9.0	1-5	0	0.0-2.0	0-13	
	5-48	10-18	4.0-12	---	7.9-9.0	15-20	0	4.0-16.0	15-30	
	48-60	10-18	4.0-12	---	7.9-9.0	5-15	0	4.0-16.0	30-60	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Threesee-----	0-3	10-18		5.0-10	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	3-14	10-20		5.0-10	---	7.9-8.4	10-20	0	0.0-2.0	1-5
	14-46	4-10		1.0-5.0	---	8.5-9.0	20-30	0	0.0-2.0	5-12
	46-60	2-8		1.0-5.0	---	8.5-9.0	10-20	0	0.0-2.0	5-12
1480:										
Tulase-----	0-2	8-18		10-15	---	7.9-8.4	5-10	0	0.0-2.0	0
	2-60	8-18		5.0-15	---	7.9-9.0	10-15	0	0.0-2.0	1-5
Linoyer-----	0-9	12-18		5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0
	9-60	12-18		5.0-15	---	7.9-9.0	10-30	0	0.0-2.0	0
1500:										
Tocole-----	0-5	5-18		3.0-10	---	8.5-9.6	5-25	0	0.0-4.0	5-12
	5-44	5-18		2.0-10	---	8.5-9.6	10-40	0	4.0-8.0	15-35
	44-61	8-18		2.0-10	---	8.5-9.6	10-40	1-2	16.0-32.0	15-35
Loray-----	0-12	10-15		5.0-15	---	7.4-8.4	5-15	0	0.0-4.0	1-5
	12-60	0-8		1.0-8.0	---	7.9-9.0	5-20	0	0.0-4.0	5-12
1510:										
Izamatc-----	0-3	8-18		5.0-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	3-13	8-18		5.0-15	---	8.5-9.0	20-30	0	0.0-2.0	0-5
	13-22	0-8		1.0-10	---	7.9-9.6	20-30	0	0.0-2.0	5-12
	22-60	0-8		1.0-10	---	8.5-9.6	30-40	0	0.0-4.0	13-30
Cliffdown-----	0-6	10-18		5.0-10	---	8.5-9.0	15-40	0	0.0-2.0	1-5
	6-60	8-18		5.0-10	---	8.5-9.0	15-40	0	8.0-16.0	5-12
1520:										
Izamatc-----	0-3	8-18		5.0-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	3-13	8-18		5.0-15	---	8.5-9.0	20-30	0	0.0-2.0	0-5
	13-22	0-8		1.0-10	---	7.9-9.6	20-30	0	0.0-2.0	5-12
	22-60	0-8		1.0-10	---	8.5-9.6	30-40	0	0.0-4.0	13-30
Izamatc-----	0-3	8-18		5.0-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	3-13	8-18		5.0-15	---	8.5-9.0	20-30	0	0.0-2.0	0-5
	13-22	0-8		1.0-10	---	7.9-9.6	20-30	0	0.0-2.0	5-12
	22-60	0-8		1.0-10	---	8.5-9.6	30-40	0	0.0-4.0	13-30
Luning-----	0-3	3-10		1.0-7.0	---	7.4-9.0	1-10	0	0.0-2.0	1-5
	3-60	3-10		1.0-7.0	---	7.9-9.0	1-10	0	0.0-4.0	5-12
1521:										
Izamatc-----	0-3	8-18		5.0-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	3-13	8-18		5.0-15	---	8.5-9.0	20-30	0	0.0-2.0	0-5
	13-22	0-8		1.0-10	---	7.9-9.6	20-30	0	0.0-2.0	5-12
	22-60	0-8		1.0-10	---	8.5-9.6	30-40	0	0.0-4.0	13-30
Izamatc-----	0-3	8-18		5.0-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	3-13	8-18		5.0-15	---	8.5-9.0	20-30	0	0.0-2.0	0-5
	13-22	0-8		1.0-10	---	7.9-9.6	20-30	0	0.0-2.0	5-12
	22-60	0-8		1.0-10	---	8.5-9.6	30-40	0	0.0-4.0	13-30
Theriot-----	0-7	8-15		5.0-10	---	7.9-9.6	40-60	0	0.0-4.0	1-5
	7-18	5-14		1.0-10	---	7.9-9.6	40-60	0	0.0-4.0	1-5
	18-22	---		---	---	---	---	---	---	---
1522:										
Izamatc-----	0-3	8-18		5.0-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	3-13	8-18		5.0-15	---	8.5-9.0	20-30	0	0.0-2.0	0-5
	13-22	0-8		1.0-10	---	7.9-9.6	20-30	0	0.0-2.0	5-12
	22-60	0-8		1.0-10	---	8.5-9.6	30-40	0	0.0-4.0	13-30
Smaug-----	0-13	8-12		0.0-5.0	---	7.9-9.0	15-30	0	2.0-4.0	5-12
	13-60	10-18		5.0-10	---	7.9-9.0	15-35	0	8.0-16.0	31-45

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Heist-----	0-4	8-18	5.0-15	---	7.9-9.0	5-20	0	0.0-2.0	0-5
	4-40	8-18	5.0-15	---	7.9-9.0	5-20	0	2.0-4.0	5-13
	40-60	8-18	5.0-10	---	7.9-9.0	5-20	0	2.0-4.0	5-13
1582:									
Armespan-----	0-7	10-18	5.0-15	---	7.9-9.0	5-10	0	2.0-4.0	1-5
	7-21	12-18	5.0-15	---	7.9-9.0	5-10	0	8.0-16.0	1-5
	21-32	10-18	5.0-15	---	7.9-9.0	10-35	0	8.0-16.0	5-12
	32-60	5-10	1.0-10	---	7.9-9.0	10-35	0	2.0-4.0	5-12
Xeric Torriorthents--	0-5	8-15	5.0-15	---	8.5-9.0	1-10	0	0.0-2.0	0-5
	5-60	2-8	1.0-10	---	8.5-9.0	1-10	0	0.0-2.0	0-5
1590:									
Luning-----	0-3	8-15	1.0-5.0	---	7.4-9.0	1-10	0	0.0-2.0	1-5
	3-60	3-10	1.0-5.0	---	7.9-9.0	1-10	0	0.0-4.0	5-12
Luning-----	0-3	3-10	1.0-7.0	---	7.4-9.0	1-10	0	0.0-2.0	1-5
	3-60	3-10	1.0-7.0	---	7.9-9.0	1-10	0	0.0-4.0	5-12
Loray-----	0-12	10-20	5.0-15	---	7.9-9.0	5-15	0	0.0-2.0	1-5
	12-60	0-8	1.0-8.0	---	7.9-9.0	5-20	0	0.0-4.0	5-12
1591:									
Luning-----	0-3	8-15	1.0-10	---	7.4-9.0	1-10	0	0.0-4.0	1-5
	3-60	3-10	1.0-5.0	---	7.9-9.0	1-10	0	0.0-4.0	5-12
Izamatch-----	0-3	8-18	5.0-15	---	7.9-9.0	20-30	0	0.0-2.0	0-5
	3-13	8-18	5.0-15	---	8.5-9.0	20-30	0	0.0-2.0	0-5
	13-22	0-8	1.0-10	---	7.9-9.6	20-30	0	0.0-2.0	5-12
	22-60	0-8	1.0-10	---	8.5-9.6	30-40	0	0.0-4.0	13-30
Badland-----	0-6	35-70	20-40	---	7.4-9.6	1-5	1-10	0.0-32.0	0-99
	6-60	35-70	20-40	---	7.4-9.6	1-10	1-15	0.0-32.0	0-99
1600:									
Eaglepass-----	0-1	8-18	3.0-10	---	7.9-9.0	20-40	0	0.0-2.0	0-5
	1-5	8-18	3.0-10	---	7.9-9.0	20-40	0	0.0-2.0	0-5
	5-9	---	---	---	---	---	---	---	---
Amtoft-----	0-4	15-25	10-20	---	7.9-9.0	10-20	0	0.0-2.0	0
	4-15	12-27	10-20	---	7.9-9.0	30-40	0	0.0-2.0	0
	15-25	---	---	---	---	---	---	---	---
1610:									
Xeric Torriorthents--	0-5	8-15	5.0-15	---	8.5-9.0	1-10	0	0.0-2.0	0-5
	5-60	2-8	1.0-10	---	8.5-9.0	1-10	0	0.0-2.0	0-5
Armespan-----	0-7	10-18	5.0-15	---	7.9-9.0	5-10	0	2.0-4.0	1-5
	7-21	12-18	5.0-15	---	7.9-9.0	5-10	0	8.0-16.0	1-5
	21-32	10-18	5.0-15	---	7.9-9.0	10-35	0	8.0-16.0	5-12
	32-60	5-10	1.0-10	---	7.9-9.0	10-35	0	2.0-4.0	5-12
Badland-----	0-60	0-0	---	---	---	---	0	---	
1620:									
Kolda-----	0-10	10-20	26-42	---	7.9-9.6	1-10	0	0.0-2.0	0-12
	10-15	20-27	18-28	---	7.9-9.6	5-15	0	0.0-2.0	0-12
	15-36	40-50	24-32	---	8.5-9.6	5-15	0	4.0-8.0	5-12
	36-60	40-50	24-30	---	8.5-9.6	10-40	0	4.0-8.0	5-12
Duffer-----	0-25	15-20	10-20	---	7.9-9.6	20-40	1-2	4.0-16.0	31-45
	25-60	20-35	10-20	---	7.9-9.6	40-60	1-2	16.0-32.0	46-90

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Sonoma-----	0-6	27-35		15-25	---	8.5-9.6	3-12	0	2.0-4.0	1-5
	6-48	20-35		15-20	---	7.9-9.6	3-12	0	0.0-2.0	5-12
	48-60	40-50		25-30	---	7.9-9.6	3-12	0	0.0-2.0	5-12
1621: Kolda-----	0-6	10-20		35-50	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	6-15	20-27		20-35	---	7.9-8.4	5-15	0	0.0-2.0	1-5
	15-36	40-50		25-30	---	8.5-9.0	5-15	1-2	4.0-8.0	1-5
	36-60	40-50		30-45	---	8.5-9.0	10-40	1-2	4.0-8.0	1-5
Rubylake-----	0-7	27-35		15-30	---	8.5-9.6	30-40	0	16.0-32.0	5-12
	7-23	18-27		15-20	---	8.5-9.6	40-50	0	2.0-8.0	1-5
	23-55	18-27		15-20	---	8.5-9.6	40-50	0-1	2.0-8.0	1-5
	55-60	25-35		15-25	---	8.5-9.6	50-70	1-2	2.0-4.0	1-5
Kolda-----	0-10	10-20		26-42	---	7.9-9.6	1-10	0	0.0-2.0	0-12
	10-15	20-27		18-28	---	7.9-9.6	5-15	0	0.0-2.0	0-12
	15-36	40-50		24-32	---	8.5-9.6	5-15	0	4.0-8.0	5-12
	36-60	40-50		24-30	---	8.5-9.6	10-40	0	4.0-8.0	5-12
1622: Kolda-----	0-10	10-20		26-42	---	7.9-9.6	1-10	0	0.0-2.0	0-12
	10-15	20-27		18-28	---	7.9-9.6	5-15	0	0.0-2.0	0-12
	15-36	40-50		24-32	---	8.5-9.6	5-15	0	4.0-8.0	5-12
	36-60	40-50		24-30	---	8.5-9.6	10-40	0	4.0-8.0	5-12
1623: Kolda-----	0-10	10-20		26-42	---	7.9-9.6	1-10	0	0.0-2.0	0-12
	10-15	20-27		18-28	---	7.9-9.6	5-15	0	0.0-2.0	0-12
	15-36	40-50		24-32	---	8.5-9.6	5-15	0	4.0-8.0	5-12
	36-60	40-50		24-30	---	8.5-9.6	10-40	0	4.0-8.0	5-12
Water-----	---	---		---	---	---	---	---	---	---
1630: Pookaloo-----	0-2	10-18		10-20	---	7.9-8.4	20-30	0	0	0
	2-14	10-18		10-20	---	7.9-8.4	30-50	0	0	0
	14-18	---		---	---	---	---	---	---	---
Cavehill-----	0-12	18-27		15-30	---	7.9-9.0	10-20	0	0	0
	12-30	18-27		10-20	---	7.9-9.0	30-50	0	0.0-2.0	0
	30-34	---		---	---	---	---	---	---	---
Rock Outcrop---	---	---		---	---	---	---	---	---	---
1631: Pookaloo-----	0-2	10-18		10-20	---	7.9-8.4	20-30	0	0	0
	2-14	10-18		10-20	---	7.9-8.4	30-50	0	0	0
	14-18	---		---	---	---	---	---	---	---
Tecomar-----	0-2	18-27		10-20	---	7.9-9.0	10-30	0	0.0-2.0	0
	2-14	20-27		5.0-15	---	7.9-9.0	20-40	0	0.0-2.0	1-5
	14-18	---		---	---	---	---	---	---	---
Wardbay-----	0-14	18-27		25-35	---	7.4-8.4	40-60	0	0	0
	14-55	18-27		5.0-15	---	7.9-8.4	40-60	0	0	0
	55-59	---		---	---	---	---	---	---	---
1640: Jungo-----	0-3	16-24		20-30	---	7.4-8.4	0-5	0	0.0-2.0	0-5
	3-20	27-35		30-40	---	7.9-9.0	1-10	1-5	0.0-4.0	0-10
	20-60	27-35		30-40	---	7.9-9.0	10-15	1-5	0.0-4.0	1-12
Jungo-----	0-3	16-24		20-30	---	7.4-8.4	0-5	0	0.0-2.0	0-5
	3-20	27-35		30-40	---	7.9-9.0	1-10	1-5	0.0-4.0	0-10
	20-60	27-35		30-40	---	7.9-9.0	10-15	1-5	0.0-4.0	1-12

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth	Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
1650:									
Shantown-----	0-2	2-8	5.0-15	---	6.6-7.8	0	0	0	0
	2-11	2-8	5.0-15	---	6.6-7.8	0	0	0	0
	11-33	8-12	5.0-10	---	7.4-7.8	0	0	0	0
	33-49	2-8	2.0-10	---	7.4-7.8	0-5	0	0	0
	49-60	2-6	0.0-5.0	---	7.9-8.4	1-10	0	0.0-4.0	0
Zorravista-----	0-6	0-5	0.0-5.0	---	7.9-9.0	1-10	0	0	0
	6-60	0-5	0.0-5.0	---	7.4-9.0	1-10	0	0	0
1651:									
Shantown-----	0-2	2-8	5.0-15	---	6.6-7.8	0	0	0	0
	2-11	2-8	5.0-15	---	6.6-7.8	0	0	0	0
	11-33	8-12	5.0-10	---	7.4-7.8	0	0	0	0
	33-49	2-8	2.0-10	---	7.4-7.8	0-5	0	0	0
	49-60	2-6	0.0-5.0	---	7.9-8.4	1-10	0	0.0-4.0	0
Shantown-----	0-2	2-8	5.0-15	---	6.6-7.8	0	0	0	0
	2-11	2-8	5.0-15	---	6.6-7.8	0	0	0	0
	11-33	8-12	5.0-10	---	7.4-7.8	0	0	0	0
	33-49	2-8	2.0-10	---	7.4-7.8	0-5	0	0	0
	49-60	2-6	0.0-5.0	---	7.9-8.4	1-10	0	0.0-4.0	0
1660:									
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-50.0	13-99
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5
Logan-----	0-10	10-20	10-20	---	7.9-9.0	25-35	0	0.0-2.0	1-5
	10-40	25-35	20-35	---	7.9-9.0	35-40	0	0.0-2.0	1-5
	40-60	35-45	30-40	---	7.9-9.0	20-25	0	0.0-2.0	1-5
1670:									
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-32.0	46-99
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5
Logan-----	0-10	10-20	10-20	---	7.9-9.0	25-35	0	0.0-2.0	1-5
	10-40	25-35	20-35	---	7.9-9.0	35-40	0	0.0-2.0	1-5
	40-60	35-45	30-40	---	7.9-9.0	20-25	0	0.0-2.0	1-5
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-50.0	13-99
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5
1680:									
Rubylake-----	0-7	27-35	15-30	---	8.5-9.6	30-40	0	16.0-32.0	5-12
	7-23	18-27	15-20	---	8.5-9.6	40-50	0	2.0-8.0	1-5
	23-55	18-27	15-20	---	8.5-9.6	40-50	0-1	2.0-8.0	1-5
	55-60	25-35	15-25	---	8.5-9.6	50-70	1-2	2.0-4.0	1-5
Kolda-----	0-6	10-20	35-50	---	7.9-8.4	1-10	0	0.0-2.0	1-5
	6-15	20-27	20-35	---	7.9-8.4	5-15	0	0.0-2.0	1-5
	15-36	40-50	25-30	---	8.5-9.0	5-15	1-2	4.0-8.0	1-5
	36-60	40-50	30-45	---	8.5-9.0	10-40	1-2	4.0-8.0	1-5
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-32.0	46-99
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5
1681:									
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-32.0	46-99
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct		meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm	
Logan-----	0-10	10-20		10-20	---	7.9-9.0	25-35	0	0.0-2.0	1-5
	10-40	25-35		20-35	---	7.9-9.0	35-40	0	0.0-2.0	1-5
	40-60	35-45		30-40	---	7.9-9.0	20-25	0	0.0-2.0	1-5
Umlerland-----	0-15	18-27		12-18	---	9.1-9.6	10-25	0	16.0-32.0	46-90
	15-60	35-50		22-32	---	8.5-9.6	10-25	1-5	4.0-16.0	46-90
1690:										
Krenka-----	0-17	10-15		15-25	---	6.6-7.3	0	0	0	0
	17-31	20-25		20-25	---	6.6-7.3	0	0	0	0
	31-60	20-25		15-20	---	6.1-7.3	0	0	0	0
Secrepass-----	0-7	10-18		15-25	---	6.1-7.3	0	0	0	0
	7-14	30-40		25-35	---	6.1-7.3	0	0	0	0
	14-31	40-60		30-45	---	6.1-7.3	0	0	0	0
	31-60	10-18		5.0-15	---	6.1-7.3	0	0	0	0
1700:										
Heechee-----	0-7	15-27		15-25	---	6.1-7.3	0	0	0	0
	7-20	25-35		20-30	---	6.6-7.3	0	0	0	0
	20-60	10-25		10-15	---	6.1-7.3	0	0	0	0
Rubicity-----	0-3	10-18		15-20	---	6.1-7.3	0	0	0	0
	3-42	10-18		15-20	---	6.1-7.3	0	0	0	0
	42-60	10-18		10-15	---	6.1-7.3	0	0	0	0
Heechee-----	0-7	10-20		10-20	---	6.1-7.3	0	0	0	0
	7-30	25-35		20-30	---	6.6-7.3	0	0	0	0
	30-60	10-25		10-15	---	6.1-7.3	0	0	0	0
1702:										
Heechee-----	0-7	15-27		15-25	---	6.6-7.3	0	0	0	0
	7-20	25-35		20-30	---	6.6-7.3	0	0	0	0
	20-60	10-25		10-15	---	6.6-7.3	0	0	0	0
McIvey-----	0-12	20-27		15-30	---	6.6-7.3	0	0	0	0
	12-18	30-40		20-30	---	6.1-7.3	0	0	0	0
	18-60	40-50		25-30	---	6.1-7.3	0	0	0	0
Rubicity-----	0-3	10-18		15-20	---	6.1-7.3	0	0	0	0
	3-42	10-18		15-20	---	6.1-7.3	0	0	0	0
	42-60	10-18		10-15	---	6.1-7.3	0	0	0	0
1710:										
James Canyon----	0-8	10-15		10-20	---	6.1-8.4	0	0	0.0-2.0	0
	8-33	18-27		20-30	---	6.1-8.4	0	0	0.0-2.0	0
	33-60	10-15		10-15	---	6.1-8.4	0	0	0.0-2.0	0
Wendane-----	0-8	15-25		15-25	---	8.5-9.6	5-15	0	16.0-32.0	46-99
	8-42	15-25		15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35		25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5
1711:										
James Canyon----	0-8	10-15		10-20	---	6.1-8.4	0	0	0.0-2.0	0
	8-33	18-27		20-30	---	6.1-8.4	0	0	0.0-2.0	0
	33-60	10-15		10-15	---	6.1-8.4	0	0	0.0-2.0	0
Wendane-----	0-8	15-25		15-25	---	8.5-9.6	5-15	0	16.0-32.0	46-99
	8-42	15-25		15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35		25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5
Wendane-----	0-8	15-25		15-25	---	8.5-9.6	5-15	0	16.0-50.0	13-99
	8-42	15-25		15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12
	42-60	27-35		25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay		Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g		pH	Pct	Pct	mmhos/cm		
Heechee-----	0-7	15-27	15-25	---	6.6-7.3	0	0	0	0	0	
	7-20	25-35	20-30	---	6.6-7.3	0	0	0	0	0	
	20-60	10-25	10-15	---	6.6-7.3	0	0	0	0	0	
1740: Slipback-----	0-12	12-18	10-20	---	7.9-8.4	0	0	0.0-2.0	1-5	1-5	
	12-39	25-35	15-25	---	7.9-9.0	1-5	0	0.0-8.0	13-45	13-45	
	39-55	12-18	10-15	---	7.9-9.0	1-5	1-5	0.0-4.0	13-30	13-30	
	55-60	2-8	5.0-10	---	7.9-9.0	1-5	1-5	0.0-4.0	1-12	1-12	
Welch-----	0-5	15-20	15-25	---	6.1-7.3	0	0	0	0	0	
	5-41	27-35	25-35	---	6.1-7.8	0	0	0	0	0	
	41-61	5-14	5.0-10	---	6.6-7.8	0	0	0	0	0	
1741: Slipback-----	0-12	12-18	10-20	---	7.9-8.4	0	0	0.0-2.0	1-5	1-5	
	12-39	25-35	15-25	---	7.9-9.0	1-5	0	0.0-8.0	13-45	13-45	
	39-55	12-18	10-15	---	7.9-9.0	1-5	1-5	0.0-4.0	13-30	13-30	
	55-60	2-8	5.0-10	---	7.9-9.0	1-5	1-5	0.0-4.0	1-12	1-12	
Shantown-----	0-2	2-8	5.0-15	---	6.6-7.8	0	0	0	0	0	
	2-11	2-8	5.0-15	---	6.6-7.8	0	0	0	0	0	
	11-33	8-12	5.0-10	---	7.4-7.8	0	0	0	0	0	
	33-49	2-8	2.0-10	---	7.4-7.8	0-5	0	0	0	0	
	49-60	2-6	0.0-5.0	---	7.9-8.4	1-10	0	0.0-4.0	0	0	
Toba-----	0-4	20-27	15-30	---	8.5-9.0	5-10	0	0.0-2.0	5-12	5-12	
	4-14	27-35	15-35	---	8.5-9.0	15-25	0	0.0-2.0	13-45	13-45	
	14-23	2-6	1.0-5.0	---	8.5-9.0	5-10	0	0.0-2.0	13-45	13-45	
	23-60	0-4	1.0-5.0	---	7.9-8.4	1-5	0-1	0.0-2.0	13-45	13-45	
1750: Heechee-----	0-7	15-27	15-25	---	6.6-7.3	0	0	0	0	0	
	7-20	25-35	20-30	---	6.1-7.3	0	0	0	0	0	
	20-60	10-20	10-15	---	6.1-7.3	0	0	0	0	0	
Welch-----	0-8	15-20	25-30	---	6.1-7.3	0	0	0	0	0	
	8-60	27-35	25-35	---	6.1-7.8	0	0	0	0	0	
Welch-----	0-8	15-20	15-20	---	6.1-7.3	0	0	0	0	0	
	8-60	27-35	25-35	---	6.1-7.8	0	0	0	0	0	
1760: Lykal-----	0-12	12-18	10-15	---	8.5-9.0	35-45	0	0.0-2.0	5-12	5-12	
	12-41	12-18	10-15	---	7.9-9.0	60-70	0	0.0-2.0	5-12	5-12	
	41-51	12-18	5.0-10	---	7.4-8.4	35-45	0	0.0-2.0	1-5	1-5	
	51-60	20-27	10-15	---	7.4-8.4	35-45	0	0.0-2.0	1-5	1-5	
Wendane-----	0-8	15-25	15-25	---	8.5-9.6	5-15	0	16.0-50.0	13-99	13-99	
	8-42	15-25	15-25	---	7.9-9.6	5-15	0	16.0-32.0	1-12	1-12	
	42-60	27-35	25-40	---	7.9-9.6	5-15	0	16.0-32.0	1-5	1-5	
James Canyon---	0-8	10-15	10-20	---	6.1-8.4	0	0	0.0-2.0	0	0	
	8-33	18-27	20-30	---	6.1-8.4	0	0	0.0-2.0	0	0	
	33-60	10-15	10-15	---	6.1-8.4	0	0	0.0-2.0	0	0	
1770: Donna-----	0-7	15-25	15-25	---	6.1-7.3	0	0	0	0	0	
	7-33	60-70	45-55	---	6.6-7.3	0	0	0	0	0	
	33-43	---	---	---	---	---	---	---	---	---	
	43-60	15-25	10-15	---	7.4-8.4	0-5	0	0.0-4.0	0	0	
McIvey-----	0-12	20-27	15-30	---	6.6-7.3	0	0	0	0	0	
	12-18	30-40	20-30	---	6.1-7.3	0	0	0	0	0	
	18-60	40-50	25-30	---	6.1-7.3	0	0	0	0	0	

TABLE 12.--CHEMICAL PROPERTIES OF THE SOILS--Continued

Map symbol and soil name	Depth		Clay	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate	Gypsum	Salinity	Sodium adsorption ratio
	In	Pct	meq/100g	meq/100g	pH	Pct	Pct	mmhos/cm		
Heechee-----	0-7	15-27	15-25	---	6.6-7.3	0	0	0	0	
	7-30	25-35	20-30	---	6.6-7.3	0	0	0	0	
	30-60	10-25	10-15	---	6.6-7.3	0	0	0	0	
1780: Schoer-----	0-3	20-27	15-25	---	6.6-7.8	0	0	0	0	
	3-16	35-45	25-40	---	7.4-8.4	0	0	0	0	
	16-23	27-40	25-35	---	7.4-8.4	0	0	0	0	
	23-33	25-35	20-30	---	7.4-8.4	0	0	0	0	
	33-60	2-8	1.0-5.0	---	7.4-8.4	0-5	0	0	0	
Welch-----	0-8	15-20	25-30	---	6.1-7.3	0	0	0	0	
	8-60	27-35	25-35	---	6.1-7.8	0	0	0	0	
1790: Donna-----	0-7	15-25	15-25	---	6.1-7.3	0	0	0	0	
	7-33	60-70	45-55	---	6.6-7.3	0	0	0	0	
	33-43	---	---	---	---	---	---	---	---	
	43-60	15-25	10-15	---	7.4-8.4	0-5	0	0.0-4.0	0	
Krenka-----	0-17	10-15	15-25	---	6.6-7.3	0	0	0	0	
	17-31	20-25	20-25	---	6.6-7.3	0	0	0	0	
	31-60	20-25	15-20	---	6.6-7.3	0	0	0	0	
McIvey-----	0-12	20-27	15-30	---	6.6-7.3	0	0	0	0	
	12-18	30-40	20-30	---	6.1-7.3	0	0	0	0	
	18-60	40-50	25-30	---	6.1-7.3	0	0	0	0	
1800: Chen-----	0-3	20-27	15-25	---	6.1-7.8	0	0	0	0	
	3-16	40-55	25-40	---	6.1-7.8	0	0	0	0	
	16-20	---	---	---	---	---	---	---	---	
Gralley-----	0-7	10-20	10-20	---	6.6-7.8	0	0	0	0	
	7-19	35-45	20-35	---	6.6-7.8	0	0	0	0	
	19-23	---	---	---	---	---	---	---	---	
Rock Outcrop----	---	---	---	---	---	---	---	---	---	
1810: Sumine-----	0-9	10-20	20-30	---	6.6-7.8	0	0	0	0	
	9-23	25-35	20-30	---	6.6-7.8	0	0	0	0	
	23-27	---	---	---	---	---	---	---	---	
Tusel-----	0-17	10-20	10-25	---	6.1-7.3	0	0	0	0	
	17-60	25-35	15-35	---	6.1-7.3	0	0	0	0	
Hapgood-----	0-8	15-25	15-25	---	6.1-7.3	0	0	0	0	
	8-36	18-27	15-20	---	6.1-7.3	0	0	0	0	
	36-50	10-15	5.0-10	---	6.1-7.3	0	0	0	0	
	50-54	---	---	---	---	---	---	---	---	
1820: Hussa-----	0-16	20-25	15-20	---	7.9-9.0	5-10	0	0.0-4.0	0	
	16-60	25-35	15-25	---	7.9-9.0	1-10	0	0.0-4.0	0	
Halleck-----	0-14	18-25	20-30	---	7.4-8.4	1-10	0	0.0-2.0	0	
	14-41	20-35	20-35	---	7.4-8.4	1-10	0	0.0-2.0	0	
	41-60	8-18	15-20	---	7.4-8.4	1-10	0	0.0-2.0	0	
Welsum-----	0-11	20-27	15-25	---	7.4-8.4	5-10	0	0.0-2.0	0	
	11-25	27-35	20-30	---	7.4-8.4	5-10	0	0.0-2.0	0	
	25-60	0-5	0.0-10	---	7.4-8.4	0-5	0	0.0-2.0	0	

TABLE 13.--WATER FEATURES

Map symbol and soil name	Hydro-logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
53: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Urmafot-----	D	None	---	---	>6.0	---	---	---	---
62: Amtoft-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
Amtoft-----	D	None	---	---	>6.0	---	---	---	---
66: Zimbob-----	D	None	---	---	>6.0	---	---	---	---
Zimbob-----	D	None	---	---	>6.0	---	---	---	---
67: Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
69: Zimbob-----	D	None	---	---	>6.0	---	---	---	---
Hyzen-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
70: Stewval-----	D	None	---	---	>6.0	---	---	---	---
Eastwell-----	D	None	---	---	>6.0	---	---	---	---
71: Stewval-----	D	None	---	---	>6.0	---	---	---	---
Wesfil-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
80: Stewval-----	D	None	---	---	>6.0	---	---	---	---
92: Wesfil-----	D	None	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
98: Wesfil-----	D	None	---	---	>6.0	---	---	---	---
Tarnach-----	D	None	---	---	>6.0	---	---	---	---
Wesfil-----	D	None	---	---	>6.0	---	---	---	---
99: Wesfil-----	D	None	---	---	>6.0	---	---	---	---
Armespan-----	B	None	---	---	>6.0	---	---	---	---
Heist-----	B	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
100: Benin-----	D	None	---	---	>6.0	---	---	---	---
Mazuma-----	B	None	---	---	>6.0	---	---	---	---
101: Toano-----	B	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
103: Benin-----	D	None	---	---	>6.0	---	---	---	---
Playas-----	D	None	---	---	-1.0-1.0	Apparent	Feb-Sep	Long	1.0
111: Gravier-----	B	None	---	---	>6.0	---	---	---	---
Armespan-----	B	None	---	---	>6.0	---	---	---	---
113: Gravier-----	B	None	---	---	>6.0	---	---	---	---
Gravier-----	B	None	---	---	>6.0	---	---	---	---
Jericho-----	D	None	---	---	>5.0	---	---	---	---
116: Gravier-----	B	None	---	---	>6.0	---	---	---	---
Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Loray-----	A	None	---	---	>6.0	---	---	---	---
118: Gravier-----	B	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
119: Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
120: Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Armespan-----	B	None	---	---	>6.0	---	---	---	---
Cliffdown-----	B	None	---	---	>6.0	---	---	---	---
122: Gravier-----	B	None	---	---	>6.0	---	---	---	---
Izamatch-----	A	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro-logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
130: Tooele-----	B	None	---	---	>6.0	---	---	---	---
Benin-----	D	None	---	---	>6.0	---	---	---	---
140: Gollaher-----	D	None	---	---	>6.0	---	---	---	---
Belsac-----	B	None	---	---	>6.0	---	---	---	---
151: Hopeka-----	D	None	---	---	>6.0	---	---	---	---
Amene-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
154: Hopeka-----	D	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
160: Saltair-----	D	Rare	---	---	0.0-1.0	Apparent	Mar-Oct	---	---
Kawich-----	A	None	---	---	>6.0	---	---	---	---
161: Saltair-----	D	Rare	---	---	0.0-1.0	Apparent	Mar-Oct	---	---
Playas-----	D	None	---	---	-1.0-1.0	Apparent	Feb-Sep	Long	1.0
171: Loray-----	A	None	---	---	>6.0	---	---	---	---
Gravier-----	B	None	---	---	>6.0	---	---	---	---
Toano-----	B	None	---	---	>6.0	---	---	---	---
173: Cliffdown-----	B	None	---	---	>6.0	---	---	---	---
Armespan-----	B	None	---	---	>6.0	---	---	---	---
Izamatch-----	A	None	---	---	>6.0	---	---	---	---
174: Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
175: Loray-----	A	None	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---
176: Loray-----	A	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
181: Peeko-----	D	None	---	---	>6.0	---	---	---	---
Dewar-----	D	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
181 (cont.) Peeko-----	D	None	---	---	>6.0	---	---	---	---
182: Peeko-----	D	None	---	---	>6.0	---	---	---	---
Peeko-----	D	None	---	---	>6.0	---	---	---	---
Gance-----	C	None	---	---	>6.0	---	---	---	---
183: Peeko-----	D	None	---	---	>6.0	---	---	---	---
Enko-----	C	None	---	---	>6.0	---	---	---	---
Izar-----	D	None	---	---	>6.0	---	---	---	---
185: Peeko-----	D	None	---	---	>6.0	---	---	---	---
Peeko-----	D	None	---	---	>6.0	---	---	---	---
Chiara-----	D	None	---	---	>6.0	---	---	---	---
186: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Pharo-----	B	None	---	---	>6.0	---	---	---	---
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
187: Peeko-----	D	None	---	---	>6.0	---	---	---	---
Izar-----	D	None	---	---	>6.0	---	---	---	---
Izar-----	D	None	---	---	>6.0	---	---	---	---
188: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
Izar-----	D	None	---	---	>6.0	---	---	---	---
192: Hutchley-----	D	None	---	---	>6.0	---	---	---	---
Simon-----	B	None	---	---	>6.0	---	---	---	---
201: Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Hopeka-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
203: Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
Pharo-----	B	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
210:									
Mazuma-----	B	None	---	---	>6.0	---	---	---	---
Hardhat-----	B	None	---	---	>6.0	---	---	---	---
Loray-----	A	None	---	---	>6.0	---	---	---	---
211:									
Valmy-----	B	None	---	---	>6.0	---	---	---	---
Enko-----	C	None	---	---	>6.0	---	---	---	---
230:									
Zafod-----	C	None	---	---	>6.0	---	---	---	---
Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Palinor-----	D	None	---	---	>6.0	---	---	---	---
231:									
Dacker-----	C	None	---	---	>6.0	---	---	---	---
Nevador-----	B	None	---	---	>6.0	---	---	---	---
Kelk-----	C	None	---	---	>6.0	---	---	---	---
240:									
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
Cobre-----	C	None	---	---	>6.0	---	---	---	---
241:									
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
Peeko-----	D	None	---	---	>6.0	---	---	---	---
Kzin-----	D	None	---	---	>6.0	---	---	---	---
242:									
Cobre-----	C	None	---	---	>6.0	---	---	---	---
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
Chiara-----	D	None	---	---	>6.0	---	---	---	---
244:									
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Palinor-----	D	None	---	---	>6.0	---	---	---	---
250:									
Izar-----	D	None	---	---	>6.0	---	---	---	---
Holborn-----	C	None	---	---	>6.0	---	---	---	---
Kzin-----	D	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
251:									
Izar-----	D	None	---	---	>6.0	---	---	---	---
Palinor-----	D	None	---	---	>6.0	---	---	---	---
Shabliss-----	D	None	---	---	>6.0	---	---	---	---
252:									
Izar-----	D	None	---	---	>6.0	---	---	---	---
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
260:									
Dewar-----	D	None	---	---	>6.0	---	---	---	---
Chiara-----	D	None	---	---	>6.0	---	---	---	---
Hunnton-----	C	None	---	---	>6.0	---	---	---	---
270:									
Chiara-----	D	None	---	---	>6.0	---	---	---	---
Kelk-----	C	None	---	---	>6.0	---	---	---	---
Kelk-----	C	Rare	---	---	>6.0	---	---	---	---
273:									
Chiara-----	D	None	---	---	>6.0	---	---	---	---
Dewar-----	D	None	---	---	>6.0	---	---	---	---
Enko-----	C	None	---	---	>6.0	---	---	---	---
276:									
Chiara-----	D	None	---	---	>6.0	---	---	---	---
Peeko-----	D	None	---	---	>6.0	---	---	---	---
Urmafot-----	D	None	---	---	>6.0	---	---	---	---
279:									
Chiara-----	D	None	---	---	>6.0	---	---	---	---
Parisa-----	C	None	---	---	>6.0	---	---	---	---
Enko-----	C	None	---	---	>6.0	---	---	---	---
280:									
Oupico-----	C	None	---	---	>6.0	---	---	---	---
Enko-----	C	None	---	---	>6.0	---	---	---	---
282:									
Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro-logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
310: Sonoma-----	C	Frequent	Long	Feb-Jun	1.5-3.0	Apparent	Feb-Jun	---	---
Devilsgait-----	D	Frequent	Long	Mar-Jun	0.0-1.5	Apparent	Feb-Jul	---	---
Sonoma-----	C	Occasional	Long	Mar-Jun	3.5-5.0	Apparent	Mar-Jun	---	---
311: Sonoma-----	B	None	---	---	>6.0	---	---	---	---
Kelk-----	C	Rare	---	---	>6.0	---	---	---	---
330: Kzin-----	D	None	---	---	>6.0	---	---	---	---
Holborn-----	C	None	---	---	>6.0	---	---	---	---
Kzin-----	D	None	---	---	>6.0	---	---	---	---
331: Kzin-----	D	None	---	---	>6.0	---	---	---	---
Cobre-----	C	None	---	---	>6.0	---	---	---	---
Jackpot-----	C	None	---	---	>6.0	---	---	---	---
333: Kzin-----	D	None	---	---	>6.0	---	---	---	---
Holborn-----	C	None	---	---	>6.0	---	---	---	---
Onkeyo-----	D	None	---	---	>6.0	---	---	---	---
340: Shuttle-----	B	None	---	---	>6.0	---	---	---	---
Hardhat-----	B	None	---	---	>6.0	---	---	---	---
Shuttle-----	B	None	---	---	>6.0	---	---	---	---
350: Jericho-----	D	None	---	---	>6.0	---	---	---	---
350 (con.): Jericho-----	D	None	---	---	>6.0	---	---	---	---
351: Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
Eastwell-----	D	None	---	---	>6.0	---	---	---	---
355: Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
370: Toano-----	B	None	---	---	>6.0	---	---	---	---
Tulase-----	B	None	---	---	>6.0	---	---	---	---
371: Linoyer-----	B	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Pending duration	Maximum ponding depth
					Ft				Ft
373: Timpie-----	B	None	---	---	>6.0	---	---	---	---
Piltown-----	B	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
374: Heist-----	B	None	---	---	>6.0	---	---	---	---
Okan-----	B	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
375: Toano-----	B	None	---	---	>6.0	---	---	---	---
Heist-----	B	None	---	---	>6.0	---	---	---	---
380: Cobre-----	C	None	---	---	>6.0	---	---	---	---
Izar-----	D	None	---	---	>6.0	---	---	---	---
Jackpot-----	C	None	---	---	>6.0	---	---	---	---
381: Cobre-----	C	None	---	---	>6.0	---	---	---	---
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
Jackpot-----	C	None	---	---	>6.0	---	---	---	---
382: Cobre-----	C	None	---	---	>6.0	---	---	---	---
Enko-----	C	None	---	---	>6.0	---	---	---	---
390: Hardol-----	B	None	---	---	>6.0	---	---	---	---
Muiral-----	C	None	---	---	>6.0	---	---	---	---
Rubble Land-----	A	None	---	---	>6.0	---	---	---	---
392: Hardol-----	B	None	---	---	>6.0	---	---	---	---
Muiral-----	C	None	---	---	>6.0	---	---	---	---
Onkeyo-----	D	None	---	---	>6.0	---	---	---	---
400: Cleavage-----	D	None	---	---	>6.0	---	---	---	---
Cleavage-----	D	None	---	---	>6.0	---	---	---	---
Sumine-----	C	None	---	---	>6.0	---	---	---	---
410: Jericho-----	D	None	---	---	>5.0	---	---	---	---
411: Jericho-----	D	None	---	---	>5.0	---	---	---	---
Armespan-----	B	None	---	---	>6.0	---	---	---	---
420: Palinor-----	D	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
471: Cucamungo-----	D	None	---	---	>6.0	---	---	---	---
Hendap-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
480: Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Palinor-----	D	None	---	---	>6.0	---	---	---	---
485: Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Parisa-----	C	None	---	---	>6.0	---	---	---	---
Hunnton-----	C	None	---	---	>6.0	---	---	---	---
490: Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
492: Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Peeko-----	D	None	---	---	>6.0	---	---	---	---
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
494: Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
496: Sodhouse-----	D	None	---	---	>6.0	---	---	---	---
Sodhouse-----	D	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
497: Sodhouse-----	D	None	---	---	>6.0	---	---	---	---
Sodhouse-----	D	None	---	---	>6.0	---	---	---	---
Palinor-----	D	None	---	---	>6.0	---	---	---	---
501: Pharo-----	B	None	---	---	>6.0	---	---	---	---
Izar-----	D	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
503: Automal-----	C	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
504: Automal-----	C	None	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---
510: Adobe-----	D	None	---	---	>6.0	---	---	---	---
Hardzem-----	C	None	---	---	>6.0	---	---	---	---
Haunchee-----	D	None	---	---	>6.0	---	---	---	---
511: Adobe-----	D	None	---	---	>6.0	---	---	---	---
Wardbay-----	B	None	---	---	>6.0	---	---	---	---
Hardol-----	B	None	---	---	>6.0	---	---	---	---
512: Adobe-----	D	None	---	---	>6.0	---	---	---	---
Cavehill-----	C	None	---	---	>6.0	---	---	---	---
Wardbay-----	B	None	---	---	>6.0	---	---	---	---
520: Haunchee-----	D	None	---	---	>6.0	---	---	---	---
Muiral-----	C	None	---	---	>6.0	---	---	---	---
Wardbay-----	B	None	---	---	>6.0	---	---	---	---
530: Wardbay-----	B	None	---	---	>6.0	---	---	---	---
Adobe-----	D	None	---	---	>6.0	---	---	---	---
Haunchee-----	D	None	---	---	>6.0	---	---	---	---
532: Onkeyo-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
540: Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Sycomat-----	B	None	---	---	>6.0	---	---	---	---
541: Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---
550: Urmafot-----	D	None	---	---	>6.0	---	---	---	---
Bobs-----	D	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
550 (con.): Urmafot-----	D	None	---	---	>6.0	---	---	---	---
551: Urmafot-----	D	None	---	---	>6.0	---	---	---	---
Bobs-----	D	None	---	---	>6.0	---	---	---	---
552: Urmafot-----	D	None	---	---	>6.0	---	---	---	---
Pharo-----	B	None	---	---	>6.0	---	---	---	---
554: Urmafot-----	D	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Urmafot-----	D	None	---	---	>6.0	---	---	---	---
561: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Urmafot-----	D	None	---	---	>6.0	---	---	---	---
Palinor-----	D	None	---	---	>6.0	---	---	---	---
562: Bobs-----	D	None	---	---	>6.0	---	---	---	---
563: Bobs-----	D	None	---	---	>6.0	---	---	---	---
Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Bobs-----	D	None	---	---	>6.0	---	---	---	---
575: Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
Cavehill-----	C	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
576: Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Onkeyo-----	D	None	---	---	>6.0	---	---	---	---
582: Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---
Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---
Katelana-----	B	None	---	---	>6.0	---	---	---	---
590: Upatad-----	D	None	---	---	>6.0	---	---	---	---
Segura-----	D	None	---	---	>6.0	---	---	---	---
600: Onkeyo-----	D	None	---	---	>6.0	---	---	---	---
Amene-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
610: Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Eastwell-----	D	None	---	---	>6.0	---	---	---	---
614: Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Eastwell-----	D	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
617: Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
Loray-----	A	None	---	---	>6.0	---	---	---	---
620: Atlow-----	D	None	---	---	>6.0	---	---	---	---
Atlow-----	D	None	---	---	>6.0	---	---	---	---
631: Eastwell-----	D	None	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
632: Eastwell-----	D	None	---	---	>6.0	---	---	---	---
Zafod-----	C	None	---	---	>6.0	---	---	---	---
634: Eastwell-----	D	None	---	---	>6.0	---	---	---	---
Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Izar-----	D	None	---	---	>6.0	---	---	---	---
636: Eastwell-----	D	None	---	---	>6.0	---	---	---	---
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
650: Mizpah-----	D	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---
671: Idway-----	B	None	---	---	>6.0	---	---	---	---
Mysol-----	C	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
672: Idway-----	B	None	---	---	>6.0	---	---	---	---
James Canyon----	B	Rare	---	---	4.0-6.0	Apparent	Dec-May	---	---
680: Simon-----	B	None	---	---	>6.0	---	---	---	---
Graley-----	D	None	---	---	>6.0	---	---	---	---
Chen-----	D	None	---	---	>6.0	---	---	---	---
691: Tarnach-----	D	None	---	---	>6.0	---	---	---	---
Tarnach-----	D	None	---	---	>6.0	---	---	---	---
Wesfil-----	D	None	---	---	>6.0	---	---	---	---
692: Tarnach-----	D	None	---	---	>6.0	---	---	---	---
Upatad-----	D	None	---	---	>6.0	---	---	---	---
Wesfil-----	D	None	---	---	>6.0	---	---	---	---
700: Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Tulase-----	B	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
720: Mysol-----	C	None	---	---	>6.0	---	---	---	---
Mysol-----	C	None	---	---	>6.0	---	---	---	---
730: Idway-----	B	None	---	---	>6.0	---	---	---	---
Kawich-----	A	None	---	---	>6.0	---	---	---	---
Mysol-----	C	None	---	---	>6.0	---	---	---	---
733: Idway-----	B	None	---	---	>6.0	---	---	---	---
Idway-----	B	None	---	---	>6.0	---	---	---	---
Mysol-----	C	None	---	---	>6.0	---	---	---	---
740: Upatad-----	D	None	---	---	>6.0	---	---	---	---
Pioche-----	D	None	---	---	>6.0	---	---	---	---
Tarnach-----	D	None	---	---	>6.0	---	---	---	---
760: Playas-----	D	Rare	---	---	-1.0-1.0	Apparent	Feb-Sep	Long	1.0
761: Umberland-----	D	None	---	---	-1.0-2.5	Apparent	Jan-Dec	Long	1.0
Umberland-----	D	None	---	---	2.5-5.0	Apparent	Dec-Jun	---	---
Playas-----	D	None	---	---	-1.0-1.0	Apparent	Feb-Sep	Long	1.0

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydrologic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
762: Umberland-----	D	None	---	---	-1.0-2.5	Apparent	Jan-Dec	Long	1.0
763: Equis-----	D	Rare	---	---	3.0-5.0	Apparent	Feb-Apr	---	---
Umberland-----	D	None	---	---	2.5-5.0	Apparent	Dec-Jun	---	---
Duffer-----	C	Occasional	Very brief	Jan-Jun	1.5-3.0	Apparent	Jan-Jun	---	---
764: Umberland-----	D	None	---	---	2.5-5.0	Apparent	Dec-Jun	---	---
Rubylake-----	D	Rare	---	---	1.0-2.0	Apparent	Mar-Jun	---	---
Orupa-----	B	None	---	---	>6.0	---	---	---	---
765: Umberland-----	D	None	---	---	-1.0-2.5	Apparent	Jan-Dec	Long	1.0
Umberland-----	D	None	---	---	2.5-5.0	Apparent	Dec-Jun	---	---
Wendane-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
767: Umberland-----	D	None	---	---	2.5-5.0	Apparent	Dec-Jun	---	---
Umberland-----	D	None	---	---	-1.0-2.5	Apparent	Jan-Dec	Long	1.0
Orupa-----	B	None	---	---	>6.0	---	---	---	---
781: Mysol-----	C	None	---	---	>6.0	---	---	---	---
Benin-----	D	None	---	---	>6.0	---	---	---	---
Wendane-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
800: Mazuma-----	B	None	---	---	>6.0	---	---	---	---
Toano-----	B	None	---	---	>6.0	---	---	---	---
801: Mazuma-----	B	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
Okan-----	B	None	---	---	>6.0	---	---	---	---
804: Mazuma-----	B	None	---	---	>6.0	---	---	---	---
Kawich-----	A	None	---	---	>6.0	---	---	---	---
Playas-----	D	Rare	---	---	-1.0-1.0	Apparent	Feb-Sep	Long	1.0
807: Mazuma-----	B	None	---	---	>6.0	---	---	---	---
Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
823: Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Blimo-----	C	None	---	---	>6.0	---	---	---	---
824: Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Katelana-----	B	None	---	---	>6.0	---	---	---	---
827: Kunzler-----	B	None	---	---	>6.0	---	---	---	---
James Canyon----	D	Occasional	Brief	Mar-May	1.5-2.0	Apparent	Mar-Jun	---	---
James Canyon----	B	None	---	---	4.0-6.0	Apparent	Dec-May	---	---
828: Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Wendane-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
830: Pharo-----	B	None	---	---	>6.0	---	---	---	---
Kzin-----	D	None	---	---	>6.0	---	---	---	---
Pharo-----	B	None	---	---	>6.0	---	---	---	---
842: Katelana-----	B	None	---	---	>6.0	---	---	---	---
Timpie-----	B	None	---	---	>6.0	---	---	---	---
843: Katelana-----	B	None	---	---	>6.0	---	---	---	---
Kawich-----	A	None	---	---	>6.0	---	---	---	---
845: Katelana-----	B	None	---	---	>6.0	---	---	---	---
Ragtown-----	C	None	---	---	>6.0	---	---	---	---
Timpie-----	B	None	---	---	>6.0	---	---	---	---
847: Mazuma-----	B	None	---	---	>6.0	---	---	---	---
Blimo-----	C	None	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---
850: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
851: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Zimbob-----	D	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro-logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
851 (con.): Tecomar-----	D	None	---	---	>6.0	---	---	---	---
852: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Shabliss-----	D	None	---	---	>6.0	---	---	---	---
854: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
Shabliss-----	D	None	---	---	>6.0	---	---	---	---
856: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Parisa-----	C	None	---	---	>6.0	---	---	---	---
857: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Shabliss-----	D	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
858: Palinor-----	D	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
870: Theriot-----	D	None	---	---	>6.0	---	---	---	---
Zimbob-----	D	None	---	---	>6.0	---	---	---	---
880: Duffer-----	C	Rare	---	---	3.0-5.0	Apparent	Feb-Jun	---	---
Duffer-----	C	Occasional	Very brief	Jan-Jun	1.5-3.0	Apparent	Jan-Jun	---	---
Kolda-----	D	None	---	---	0.0-1.5	Apparent	Oct-Jun	---	---
881: Duffer-----	C	Rare	---	---	3.0-5.0	Apparent	Feb-Jun	---	---
Kunzler-----	B	None	---	---	>6.0	---	---	---	---
882: Duffer-----	C	Occasional	Very brief	Jan-Jun	1.5-3.0	Apparent	Jan-Jun	---	---
Kolda-----	D	None	---	---	0.0-1.5	Apparent	Oct-Jun	---	---
894: Zerk-----	B	None	---	---	>6.0	---	---	---	---
Threese-----	B	None	---	---	>6.0	---	---	---	---
Mazuma-----	B	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
900: Zerk-----	B	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
910: Ragtown-----	C	None	---	---	>6.0	---	---	---	---
Ragtown-----	C	None	---	---	>6.0	---	---	---	---
912: Katelana-----	B	None	---	---	>6.0	---	---	---	---
Katelana-----	B	None	---	---	>6.0	---	---	---	---
914: Katelana-----	B	None	---	---	>6.0	---	---	---	---
Benin-----	D	None	---	---	>6.0	---	---	---	---
Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---
917: Katelana-----	B	None	---	---	>6.0	---	---	---	---
Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---
Ragtown-----	C	None	---	---	>6.0	---	---	---	---
918: Katelana-----	B	None	---	---	>6.0	---	---	---	---
Zorravista-----	A	None	---	---	>6.0	---	---	---	---
Playas-----	D	None	---	---	-1.0-1.0	Apparent	Feb-Sep	Long	1.0
930: Okan-----	B	None	---	---	>6.0	---	---	---	---
Toano-----	B	None	---	---	>6.0	---	---	---	---
Loray-----	A	None	---	---	>6.0	---	---	---	---
932: Okan-----	B	None	---	---	>6.0	---	---	---	---
Pyrat-----	B	None	---	---	>6.0	---	---	---	---
941: Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---
Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---
Zorravista-----	A	None	---	---	>6.0	---	---	---	---
943: Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro-logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
943 (con.): Umberland-----	D	None	---	---	2.5-5.0	Apparent	Dec-Jun	---	---
960: Gravier-----	B	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
961: Gravier-----	B	None	---	---	>6.0	---	---	---	---
Pilttdown-----	B	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
972: Zimbob-----	D	None	---	---	>6.0	---	---	---	---
Zimbob-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
974: Zimbob-----	D	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
975: Zimbob-----	D	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
980: Onkeyo-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
Zimbob-----	D	None	---	---	>6.0	---	---	---	---
990: Hyzen-----	D	None	---	---	>6.0	---	---	---	---
Zimbob-----	D	None	---	---	>6.0	---	---	---	---
991: Hyzen-----	D	None	---	---	>6.0	---	---	---	---
Cavehill-----	C	None	---	---	>6.0	---	---	---	---
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
1000: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
1001: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
Eastwell-----	D	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1002: Threese-----	B	None	---	---	>6.0	---	---	---	---
Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Threese-----	B	None	---	---	>6.0	---	---	---	---
1003: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Hundraw-----	D	None	---	---	>6.0	---	---	---	---
Tulase-----	B	None	---	---	>6.0	---	---	---	---
1004: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Parisa-----	C	None	---	---	>6.0	---	---	---	---
Tulase-----	B	None	---	---	>6.0	---	---	---	---
1005: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Zerk-----	B	None	---	---	>6.0	---	---	---	---
Parisa-----	C	None	---	---	>6.0	---	---	---	---
1006: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Blimo-----	C	None	---	---	>6.0	---	---	---	---
1007: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Parisa-----	C	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
1009: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Tulase-----	B	None	---	---	>6.0	---	---	---	---
Wintermute-----	C	None	---	---	>6.0	---	---	---	---
1020: Okan-----	B	Rare	---	---	>6.0	---	---	---	---
Eastwell-----	D	None	---	---	>6.0	---	---	---	---
Blimo-----	C	None	---	---	>6.0	---	---	---	---
1023: Okan-----	B	Rare	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
Katelana-----	B	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1030: Segura-----	D	None	---	---	>6.0	---	---	---	---
Bullump-----	B	None	---	---	>6.0	---	---	---	---
Hutchley-----	D	None	---	---	>6.0	---	---	---	---
1040: Segura-----	D	None	---	---	>6.0	---	---	---	---
Pioche-----	D	None	---	---	>6.0	---	---	---	---
Chen-----	D	None	---	---	>6.0	---	---	---	---
1061: Pioche-----	D	None	---	---	>6.0	---	---	---	---
Cucamungo-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
1070: Zafod-----	C	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
Okan-----	B	Rare	---	---	>6.0	---	---	---	---
1080: Cotant-----	D	None	---	---	>6.0	---	---	---	---
Segura-----	D	None	---	---	>6.0	---	---	---	---
1111: Parisa-----	C	None	---	---	>6.0	---	---	---	---
1120: Okan-----	B	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
1150: Adobe-----	D	None	---	---	>6.0	---	---	---	---
Wardbay-----	B	None	---	---	>6.0	---	---	---	---
Haunchee-----	D	None	---	---	>6.0	---	---	---	---
1161: Pharo-----	B	None	---	---	>6.0	---	---	---	---
Bobs-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
1171: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
Gravier-----	B	None	---	---	>6.0	---	---	---	---
1172: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1173: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Automal-----	C	None	---	---	>6.0	---	---	---	---
1174: Pyrat-----	B	None	---	---	>6.0	---	---	---	---
Tosser-----	B	None	---	---	>6.0	---	---	---	---
1180: Haunchee-----	D	None	---	---	>6.0	---	---	---	---
Cavehill-----	C	None	---	---	>6.0	---	---	---	---
1181: Haunchee-----	D	None	---	---	>6.0	---	---	---	---
Halacan-----	D	None	---	---	>6.0	---	---	---	---
Wardbay-----	B	None	---	---	>6.0	---	---	---	---
1190: Upatad-----	D	None	---	---	>6.0	---	---	---	---
Atlow-----	D	None	---	---	>6.0	---	---	---	---
Upatad-----	D	None	---	---	>6.0	---	---	---	---
1191: Upatad-----	D	None	---	---	>6.0	---	---	---	---
Pioche-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
1200: Hardol-----	B	None	---	---	>6.0	---	---	---	---
Hardzem-----	C	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
1201: Hardol-----	B	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
Wardbay-----	B	None	---	---	>6.0	---	---	---	---
1210: Blimo-----	C	None	---	---	>6.0	---	---	---	---
Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
1213: Blimo-----	C	None	---	---	>6.0	---	---	---	---
Threesee-----	B	None	---	---	>6.0	---	---	---	---
1215: Blimo-----	C	None	---	---	>6.0	---	---	---	---
Zorravista-----	A	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro-logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1216:									
Blimo-----	C	None	---	---	>6.0	---	---	---	---
Idway-----	B	None	---	---	>6.0	---	---	---	---
Mazuma-----	B	None	---	---	>6.0	---	---	---	---
1220:									
Onkeyo-----	D	None	---	---	>6.0	---	---	---	---
Adobe-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
1230:									
Hardzem-----	C	None	---	---	>6.0	---	---	---	---
Haunchee-----	D	None	---	---	>6.0	---	---	---	---
Wardbay-----	B	None	---	---	>6.0	---	---	---	---
1240:									
Benin-----	D	None	---	---	>6.0	---	---	---	---
Benin-----	D	None	---	---	>6.0	---	---	---	---
1241:									
Benin-----	D	None	---	---	>6.0	---	---	---	---
Playas-----	D	None	---	---	-1.0-1.0	Apparent	Feb-Sep	Long	1.0
Benin-----	D	None	---	---	>6.0	---	---	---	---
1250:									
Tecomar-----	D	None	---	---	>6.0	---	---	---	---
Pookaloo-----	D	None	---	---	>6.0	---	---	---	---
1270:									
Katelana-----	B	None	---	---	>6.0	---	---	---	---
Sheffit-----	D	None	---	---	5.0-6.0	Apparent	Jan-May	---	---
1271:									
Uvada-----	D	None	---	---	>6.0	---	---	---	---
Ragtown-----	C	None	---	---	>6.0	---	---	---	---
1272:									
Katelana-----	B	None	---	---	>6.0	---	---	---	---
Kawich-----	A	None	---	---	>6.0	---	---	---	---
1280:									
Sycomat-----	B	None	---	---	>6.0	---	---	---	---
Kunzler-----	B	None	---	---	>6.0	---	---	---	---
1281:									
Sycomat-----	B	None	---	---	>6.0	---	---	---	---
Mazuma-----	B	None	---	---	>6.0	---	---	---	---
1290:									
Heist-----	B	None	---	---	>6.0	---	---	---	---
Blimo-----	C	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1440: Boofuss-----	D	Rare	---	---	-0.5-2.5	Apparent	Jan-Jul	Long	0.5
Boofuss-----	D	Rare	---	---	-0.5-2.5	Apparent	Jan-Jul	Long	0.5
Equis-----	D	Rare	---	---	1.0-3.0	Apparent	Feb-Apr	---	---
1441: Boofuss-----	D	Rare	---	---	-0.5-2.5	Apparent	Jan-Jul	Long	0.5
Wendane-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
Umberland-----	D	None	---	---	2.5-5.0	Apparent	Dec-Jun	---	---
1450: Piltown-----	B	None	---	---	>6.0	---	---	---	---
Kawich-----	A	None	---	---	>6.0	---	---	---	---
1460: Tosser-----	B	None	---	---	>6.0	---	---	---	---
Threesee-----	B	None	---	---	>6.0	---	---	---	---
1471: Timpie-----	B	None	---	---	>6.0	---	---	---	---
Kunzler-----	B	None	---	---	>6.0	---	---	---	---
Threesee-----	B	None	---	---	>6.0	---	---	---	---
1480: Tulase-----	B	None	---	---	>6.0	---	---	---	---
Linoyer-----	B	None	---	---	>6.0	---	---	---	---
1500: Tooele-----	B	None	---	---	>6.0	---	---	---	---
Loray-----	A	None	---	---	>6.0	---	---	---	---
1510: Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Cliffdown-----	B	None	---	---	>6.0	---	---	---	---
1520: Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Luning-----	A	None	---	---	>6.0	---	---	---	---
1521: Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Theriot-----	D	None	---	---	>6.0	---	---	---	---
1522: Izamatch-----	A	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1522 (con.): Smaug-----	B	None	---	---	>6.0	---	---	---	---
Badland-----	D	None	---	---	>6.0	---	---	---	---
1530: Theriot-----	D	None	---	---	>6.0	---	---	---	---
Theriot-----	D	None	---	---	>6.0	---	---	---	---
Izamatch-----	A	None	---	---	>6.0	---	---	---	---
1531: Theriot-----	D	None	---	---	>6.0	---	---	---	---
Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
1532: Theriot-----	D	None	---	---	>6.0	---	---	---	---
Theriot-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
1540: Kyler-----	D	None	---	---	>6.0	---	---	---	---
Amtoft-----	D	None	---	---	>6.0	---	---	---	---
Amtoft-----	D	None	---	---	>6.0	---	---	---	---
1541: Kyler-----	D	None	---	---	>6.0	---	---	---	---
Kyler-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
1542: Kyler-----	D	None	---	---	>6.0	---	---	---	---
1542 (con.): Amtoft-----	D	None	---	---	>6.0	---	---	---	---
Jericho-----	D	None	---	---	>5.0	---	---	---	---
1550: Jericho-----	D	None	---	---	>5.0	---	---	---	---
Jericho-----	D	None	---	---	>5.0	---	---	---	---
1560: Toano-----	B	None	---	---	>6.0	---	---	---	---
Timpie-----	B	None	---	---	>6.0	---	---	---	---
1570: Jericho-----	D	None	---	---	>5.0	---	---	---	---
Xeric Torriorthents--	A	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1580: Armespan-----	B	None	---	---	>6.0	---	---	---	---
Jericho-----	D	None	---	---	>5.0	---	---	---	---
1581: Armespan-----	B	None	---	---	>6.0	---	---	---	---
Kyler-----	D	None	---	---	>6.0	---	---	---	---
Heist-----	B	None	---	---	>6.0	---	---	---	---
1582: Armespan-----	B	None	---	---	>6.0	---	---	---	---
Xeric Torriorthents--	A	None	---	---	>6.0	---	---	---	---
1590: Luning-----	A	None	---	---	>6.0	---	---	---	---
Luning-----	A	None	---	---	>6.0	---	---	---	---
Loray-----	A	None	---	---	>6.0	---	---	---	---
1591: Luning-----	A	None	---	---	>6.0	---	---	---	---
Izamatch-----	A	None	---	---	>6.0	---	---	---	---
Badland-----	D	None	---	---	>6.0	---	---	---	---
1600: Eaglepass-----	D	None	---	---	>6.0	---	---	---	---
Amtoft-----	D	None	---	---	>6.0	---	---	---	---
1610: Xeric Torriorthents--	A	None	---	---	>6.0	---	---	---	---
Armespan-----	B	None	---	---	>6.0	---	---	---	---
Badland-----	D	None	---	---	>6.0	---	---	---	---
1620: Kolda-----	D	None	---	---	-3.0-0.0	Apparent	Jan-Dec	Very long	3.0
Duffer-----	C	Occasional	Very brief	Jan-Jun	1.5-3.0	Apparent	Jan-Jun	---	---
Sonoma-----	C	Frequent	Long	Feb-Jun	1.5-3.0	Apparent	Feb-Jun	---	---
1621: Kolda-----	D	None	---	---	-1.0-2.0	Apparent	Apr-Jun	Long	1.0
Rubylake-----	C	Rare	---	---	1.5-3.0	Apparent	Mar-Jun	---	---
Kolda-----	D	None	---	---	-3.0-0.0	Apparent	Jan-Dec	Very long	3.0
1622: Kolda-----	D	None	---	---	-3.0-0.0	Apparent	Jan-Dec	Very long	3.0

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1623: Kolda----- Water.	D	None	---	---	-3.0-0.0	Apparent	Jan-Dec	Very long	3.0
1630: Pookaloo----- Cavehill----- Rock Outcrop.	D	None	---	---	>6.0	---	---	---	---
1631: Pookaloo----- Tecomar----- Wardbay-----	C	None	---	---	>6.0	---	---	---	---
1631: Pookaloo----- Tecomar----- Wardbay-----	D	None	---	---	>6.0	---	---	---	---
1640: Jungo----- Jungo-----	B	None	---	---	>6.0	---	---	---	---
1650: Shantown----- Zorravista-----	B	None	---	---	>6.0	---	---	---	---
1651: Shantown----- Shantown-----	A	None	---	---	>6.0	---	---	---	---
1651: Shantown----- Shantown-----	A	None	---	---	>6.0	---	---	---	---
1660: Wendane----- Logan-----	A	None	---	---	>6.0	---	---	---	---
1660: Wendane----- Logan-----	C	Occasional	Long	Dec-Jun	2.5-4.0	Apparent	Feb-Jul	---	---
1660: Wendane----- Logan-----	D	Occasional	Brief	Mar-May	1.0-1.5	Apparent	Apr-Jun	---	---
1670: Wendane----- Logan----- Wendane-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
1670: Wendane----- Logan----- Wendane-----	D	Occasional	Brief	Mar-May	1.0-1.5	Apparent	Apr-Jun	---	---
1670: Wendane----- Logan----- Wendane-----	C	Occasional	Long	Dec-Jun	2.5-4.0	Apparent	Feb-Jul	---	---
1680: Rubylake----- Kolda----- Wendane-----	C	Rare	---	---	1.5-3.0	Apparent	Mar-Jun	---	---
1680: Rubylake----- Kolda----- Wendane-----	D	None	---	---	-1.0-2.0	Apparent	Apr-Jun	Long	1.0
1680: Rubylake----- Kolda----- Wendane-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
1681: Wendane----- Logan----- Umberland-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
1681: Wendane----- Logan----- Umberland-----	D	Occasional	Brief	Mar-May	1.0-1.5	Apparent	Apr-Jun	---	---
1681: Wendane----- Logan----- Umberland-----	D	None	---	---	2.5-5.0	Apparent	Dec-Jun	---	---
1690: Krenka----- Secrepass-----	B	None	---	---	>6.0	---	---	---	---
1690: Krenka----- Secrepass-----	D	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro-logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
				Ft					Ft
1700: Heechee-----	B	None	---	---	>6.0	---	---	---	---
Rubicity-----	B	None	---	---	>6.0	---	---	---	---
Heechee-----	B	None	---	---	>6.0	---	---	---	---
1702: Heechee-----	B	None	---	---	>6.0	---	---	---	---
McIvey-----	C	None	---	---	>6.0	---	---	---	---
Rubicity-----	B	None	---	---	>6.0	---	---	---	---
1710: James Canyon----	D	Occasional	Brief	Mar-May	1.5-2.0	Apparent	Mar-Jun	---	---
Wendane-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
1711: James Canyon----	D	Occasional	Brief	Mar-May	1.5-2.0	Apparent	Mar-Jun	---	---
Wendane-----	C	Rare	---	---	2.5-4.0	Apparent	Feb-Jul	---	---
Wendane-----	C	Occasional	Long	Dec-Jun	2.5-4.0	Apparent	Feb-Jul	---	---
1720: Welch-----	D	Occasional	Brief	Mar-Jun	0.0-1.5	Apparent	Nov-Jun	---	---
1721: Welch-----	D	Occasional	Brief	Mar-Jun	0.0-1.5	Apparent	Nov-Jun	---	---
Welsum-----	D	Frequent	Brief	Mar-May	0.0-1.5	Apparent	Feb-Jun	---	---
1722: Welch-----	C	Rare	---	---	4.0-6.0	Apparent	Nov-Jun	---	---
Slipback-----	B	None	---	---	>6.0	---	---	---	---
Welch-----	D	Occasional	Brief	Mar-Jun	1.0-1.5	Apparent	Nov-Jun	---	---
1723: Welch-----	D	Occasional	Brief	Mar-Jun	0.0-1.5	Apparent	Nov-Jun	---	---
Welch-----	B	Rare	---	---	4.0-6.0	Apparent	Mar-Jun	---	---
1730: McIvey-----	C	None	---	---	>6.0	---	---	---	---
Donna-----	D	None	---	---	>6.0	---	---	---	---
1731: McIvey-----	C	None	---	---	>6.0	---	---	---	---
Chen-----	D	None	---	---	>6.0	---	---	---	---
Donna-----	D	None	---	---	>6.0	---	---	---	---
1732: McIvey-----	C	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro- logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1732 (con.): Stampede-----	D	None	---	---	>6.0	---	---	---	---
Heechee-----	B	None	---	---	>6.0	---	---	---	---
1740: Slipback-----	B	None	---	---	>6.0	---	---	---	---
Welch-----	C	Rare	---	---	4.0-6.0	Apparent	Nov-Jun	---	---
1741: Slipback-----	B	None	---	---	>6.0	---	---	---	---
Shantown-----	A	None	---	---	>6.0	---	---	---	---
Toba-----	B	Frequent	Long	Mar-Jun	1.5-2.0	Apparent	Mar-Jun	---	---
1750: Heechee-----	B	None	---	---	>6.0	---	---	---	---
Welch-----	D	Occasional	Brief	Mar-Jun	0.0-1.5	Apparent	Nov-Jun	---	---
Welch-----	B	Rare	---	---	4.0-6.0	Apparent	Mar-Jun	---	---
1760: Lykal-----	C	Rare	---	---	1.5-3.0	Apparent	Mar-May	---	---
Wendane-----	C	Occasional	Long	Dec-Jun	2.5-4.0	Apparent	Feb-Jul	---	---
James Canyon---	D	Occasional	Brief	Mar-May	1.5-2.0	Apparent	Mar-Jun	---	---
1770: Donna-----	D	None	---	---	>6.0	---	---	---	---
McIvey-----	C	None	---	---	>6.0	---	---	---	---
Heechee-----	B	None	---	---	>6.0	---	---	---	---
1780: Schoer-----	C	None	---	---	>6.0	---	---	---	---
Welch-----	D	Occasional	Brief	Mar-Jun	0.0-1.5	Apparent	Nov-Jun	---	---
1790: Donna-----	D	None	---	---	>6.0	---	---	---	---
Krenka-----	B	None	---	---	>6.0	---	---	---	---
McIvey-----	C	None	---	---	>6.0	---	---	---	---
1800: Chen-----	D	None	---	---	>6.0	---	---	---	---
Graley-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
1810: Sumine-----	C	None	---	---	>6.0	---	---	---	---
Tusel-----	B	None	---	---	>6.0	---	---	---	---
Hapgood-----	B	None	---	---	>6.0	---	---	---	---

TABLE 13.--WATER FEATURES--Continued

Map symbol and soil name	Hydro-logic group	Flooding			High water table and ponding				
		Frequency	Duration	Months	Water table depth	Kind of water table	Months	Ponding duration	Maximum ponding depth
					Ft				Ft
1820: Hussa-----	D	Frequent	Brief	Mar-Jun	0.5-1.5	Apparent	Mar-Jun	---	---
Halleck-----	C	Frequent	Long	Mar-Jun	1.5-2.5	Apparent	Feb-Jul	---	---
Welsum-----	D	Frequent	Brief	Mar-May	0.0-1.5	Apparent	Feb-Jun	---	---
1831: Enko-----	C	None	---	---	>6.0	---	---	---	---
Kelk-----	C	None	---	---	>6.0	---	---	---	---
Enko-----	C	None	---	---	>6.0	---	---	---	---
1840: Amene-----	D	None	---	---	>6.0	---	---	---	---
Belsac-----	B	None	---	---	>6.0	---	---	---	---
Chen-----	D	None	---	---	>6.0	---	---	---	---
1850: Bullump-----	B	None	---	---	>6.0	---	---	---	---
Cleavage-----	D	None	---	---	>6.0	---	---	---	---
Rock Outcrop.									
1861: Equis-----	D	Rare	---	---	1.0-3.0	Apparent	Feb-Apr	---	---
Devilsgait-----	D	Frequent	Long	Mar-Jun	0.0-1.5	Apparent	Feb-Jul	---	---
1862: Equis-----	D	Rare	---	---	1.0-3.0	Apparent	Feb-Apr	---	---
Equis-----	D	Rare	---	---	1.0-3.0	Apparent	Feb-Apr	---	---
Kolda-----	D	None	---	---	0.0-1.5	Apparent	Oct-Jun	---	---

TABLE 14.--SOIL FEATURES

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0053: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0062: Amtoft-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Moderate
Rock Outcrop---	---	---	---	---	---	---	---	---	---
Amtoft-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Moderate
0066: Zimbob-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Zimbob-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0067: Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0069: Zimbob-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Hyzen-----	6-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
0070: Stewval-----	4-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
0071: Stewval-----	4-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Wesfil-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
0080: Stewval-----	4-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
0092: Wesfil-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0098: Wesfil-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tarnach-----	10-20	---	---	---	0	---	Moderate	High	Low
Wesfil-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0099: Wesfil-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Armespan-----	---	---	---	---	0	---	Moderate	High	Low
Heist-----	---	---	---	---	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0100: Benin-----	---	---	---	---	0	---	Low	High	High
Mazuma-----	---	---	---	---	0	---	Low	High	High
0101: Toano-----	---	---	---	---	0	---	Low	High	Moderate
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
0103: Benin-----	---	---	---	---	0	---	Low	High	High
Playas-----	---	---	---	---	0	---	None	High	High
0111: Gravier-----	---	---	---	---	0	---	Low	High	Low
Armespan-----	---	---	---	---	0	---	Moderate	High	Low
113: Gravier-----	---	---	---	---	0	---	Low	High	Low
Gravier-----	---	---	---	---	0	---	Low	High	Low
Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate
0116: Gravier-----	---	---	---	---	0	---	Low	High	Low
Izamatch-----	---	---	---	---	0	---	Low	High	Low
Loray-----	---	---	---	---	0	---	Low	High	Low
0118: Gravier-----	---	---	---	---	0	---	Low	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
0119: Wintermute-----	---	---	---	---	0	---	Low	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
0120: Izamatch-----	---	---	---	---	0	---	Low	High	Low
Armespan-----	---	---	---	---	0	---	Moderate	High	Low
Cliffdown-----	---	---	---	---	0	---	Low	High	High
0122: Gravier-----	---	---	---	---	0	---	Low	High	Low
Izamatch-----	---	---	---	---	0	---	Low	High	Low
0130: Tocela-----	---	---	---	---	0	---	Low	High	High
Benin-----	---	---	---	---	0	---	Low	High	High
0140: Gollaher-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Belsac-----	25-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
0151: Hopeka-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Amene-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Rock Outcrop----	---	---	---	---	---	---	---	---	---
0154: Hopeka-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0160: Saltair-----	---	---	---	---	0	---	High	High	High
Kawich-----	---	---	---	---	0	---	Low	High	High
0161: Saltair-----	---	---	---	---	0	---	High	High	High
Playas-----	---	---	---	---	0	---	None	High	High
0171: Loray-----	---	---	---	---	0	---	Low	High	Low
Gravier-----	---	---	---	---	0	---	Low	High	Low
Toano-----	---	---	---	---	0	---	Low	High	Moderate
0173: Cliffdown-----	---	---	---	---	0	---	Low	High	High
Armespan-----	---	---	---	---	0	---	Moderate	High	Low
Izamatch-----	---	---	---	---	0	---	Low	High	Low
0174: Wintermute-----	---	---	---	---	0	---	Low	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0175: Loray-----	---	---	---	---	0	---	Low	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
0176: Loray-----	---	---	---	---	0	---	Low	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
0181: Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Dewar-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0182: Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Gance-----	---	---	---	---	0	---	Low	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0183: Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Enko-----	---	---	---	---	0	---	Moderate	High	Low
Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0185: Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Chiara-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0186: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Pharo-----	---	---	---	---	0	---	Moderate	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
0187: Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0188: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0192: Hutchley-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Simon-----	---	---	---	---	0	---	Moderate	Moderate	Low
0201: Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Hopeka-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
0203: Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pharo-----	---	---	---	---	0	---	Moderate	High	Low
0210: Mazuma-----	---	---	---	---	0	---	Low	High	High
Hardhat-----	---	---	---	---	0	---	Low	High	High
Loray-----	---	---	---	---	0	---	Low	High	Low
0211: Valmy-----	---	---	---	---	0	---	Low	High	High
Enko-----	---	---	---	---	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0230: Zafod-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0231: Dacker-----	20-35	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Nevador-----	---	---	---	---	0	---	Moderate	High	Low
Kelk-----	---	---	---	---	0	---	Moderate	High	Low
0240: Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Cobre-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
0241: Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Kzin-----	4-12	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
0242: Cobre-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Chiara-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0244: Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0250: Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Holborn-----	6-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Kzin-----	4-12	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
0251: Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0252: Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0260: Dewar-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Chiara-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Hunnton-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0270: Chiara-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Kelk-----	---	---	---	---	0	---	Moderate	High	Low
Kelk-----	---	---	---	---	0	---	Moderate	High	Low
0273: Chiara-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Dewar-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Enko-----	---	---	---	---	0	---	Moderate	High	Low
0276: Chiara-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0279: Chiara-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Parisa-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Enko-----	---	---	---	---	0	---	Moderate	High	Low
0280: Oupico-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Enko-----	---	---	---	---	0	---	Moderate	High	Low
0282: Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Fyrat-----	---	---	---	---	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0310: Sonoma-----	---	---	---	---	0	---	High	High	Low
Devilsgait-----	---	---	---	---	0	---	High	High	Low
Sonoma-----	---	---	---	---	0	---	High	High	Low
0311: Sonoma-----	---	---	---	---	0	---	High	High	Low
Kelk-----	---	---	---	---	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
0330: Kzin-----	4-12	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Holborn-----	6-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Kzin-----	4-12	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
0331: Kzin-----	4-12	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Cobre-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Jackpot-----	10-20	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	Moderate	Low
0333: Kzin-----	4-12	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Holborn-----	6-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Onkeyo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0340: Shuttle-----	40-60	Duripan	4-17	Indurated	0	---	Low	High	High
Hardhat-----	---	---	---	---	0	---	Low	High	High
Shuttle-----	---	---	---	---	0	---	Low	High	High
0350: Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate
Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate
0351: Shabliss-----	10-20	Duripan	0-3	Indurated	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
0355: Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0370: Toano-----	---	---	---	---	0	---	Low	High	Moderate
Tulase-----	---	---	---	---	0	---	Moderate	High	Low
0371: Lincoyer-----	---	---	---	---	0	---	Low	High	Moderate
Okan-----	---	---	---	---	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
0373: Timple-----	---	---	---	---	0	---	High	High	High
Piltown-----	---	---	---	---	0	---	Low	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
0374: Heist-----	---	---	---	---	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
0375: Toano-----	---	---	---	---	0	---	Low	High	Moderate
Heist-----	---	---	---	---	0	---	Moderate	High	Low
0380: Cobre-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Jackpot-----	10-20	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	Moderate	Low
0381: Cobre-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Jackpot-----	10-20	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	Moderate	Low
0382: Cobre-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Enko-----	---	---	---	---	0	---	Moderate	High	Low
0390: Hardol-----	---	---	---	---	0	---	Moderate	High	Low
Muiral-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Moderate
Rubble Land----	40-40	Bedrock (lithic)	---	Indurated	0	---	None	---	---
0392: Hardol-----	---	---	---	---	0	---	Moderate	High	Low
Muiral-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Moderate
Onkeyo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0400: Cleavage-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Cleavage-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Sumine-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
410: Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
411: Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate
Armespan-----	---	---	---	---	0	---	Moderate	High	Low
0420: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0421: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
0422: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Zimbob-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0424: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0426: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
0429: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0430: Graley-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Pioche-----	6-15	Bedrock (lithic)	---	Indurated	0	---	Low	Moderate	Low
Cropper-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
0431: Graley-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Chen-----	12-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
McIvey-----	---	---	---	---	0	---	Moderate	Moderate	Low
0440: Lomoine-----	4-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Bijorja-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Lomoine-----	4-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0460: Okan-----	---	---	---	---	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
0470: Rozara-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Cucamungo-----	14-20	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
0471: Cucamungo-----	14-20	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Hendap-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
0480: Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0485: Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Parisa-----	20-40	Duripan	---	Indurated	0	---	Moderate	High	Low
Hunnton-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0490: Wintermute-----	---	---	---	---	0	---	Low	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
0492: Wintermute-----	---	---	---	---	0	---	Low	High	Low
Peeko-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
0494: Wintermute-----	---	---	---	---	0	---	Low	High	Low
Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
0496: Sodhouse-----	14-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Sodhouse-----	14-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Lincyer-----	---	---	---	---	0	---	Low	High	Moderate

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
0497: Sodhouse-----	14-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Sodhouse-----	14-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0501: Pharo-----	---	---	---	---	0	---	Moderate	High	Low
Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0503: Automal-----	---	---	---	---	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
0504: Automal-----	---	---	---	---	0	---	Moderate	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
0510: Adobe-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Hardzem-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	Moderate	Low
Haunchee-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0511: Adobe-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Hardol-----	---	---	---	---	0	---	Moderate	High	Low
0512: Adobe-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Cavehill-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0520: Haunchee-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Muiral-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Moderate
Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0530: Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Adobe-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Haunchee-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0532: Onkeyo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0540: Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Sycomat-----	---	---	---	---	0	---	Low	High	Low
0541: Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Sheffit-----	---	---	---	---	0	---	Moderate	High	High
0550: Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Bobs-----	10-20	Petrocalcic	4-17	---	0	---	Moderate	High	Low
Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0551: Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Bobs-----	10-20	Petrocalcic	4-17	---	0	---	Moderate	High	Low
552: Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Pharo-----	---	---	---	---	0	---	Moderate	High	Low
0554: Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0561: Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Urmafot-----	9-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0562: Bobs-----	10-20	Petrocalcic	4-17	---	0	---	Moderate	High	Low
0563: Bobs-----	10-20	Petrocalcic	4-17	---	0	---	Moderate	High	Low
Fyrat-----	---	---	---	---	0	---	Moderate	High	Low
0575: Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Cavehill-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
0576: Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Onkeyo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
0582: Sheffit-----	---	---	---	---	0	---	Moderate	High	High
Sheffit-----	---	---	---	---	0	---	Moderate	High	High
Katelana-----	---	---	---	---	0	---	Moderate	High	High
0590: Upatad-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Segura-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0600: Onkeyo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Amene-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0610: Wintermute-----	---	---	---	---	0	---	Low	High	Low
Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
0614: Wintermute-----	---	---	---	---	0	---	Low	High	Low
Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
0617: Wintermute-----	---	---	---	---	0	---	Low	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
Loray-----	---	---	---	---	0	---	Low	High	Low
0620: Atlow-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Atlow-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0631: Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0632: Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Zafod-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0634: Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Izar-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
0636: Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0650: Mizpah-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Low	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
0671: Idway-----	---	---	---	---	0	---	Moderate	High	Low
Mysol-----	---	---	---	---	0	---	Moderate	High	High
0672: Idway-----	---	---	---	---	0	---	Moderate	High	Low
James Canyon----	---	---	---	---	0	---	High	Moderate	Low
0680: Simon-----	---	---	---	---	0	---	Moderate	Moderate	Low
Graley-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Chen-----	12-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
0691: Tarnach-----	10-20	---	---	---	0	---	Moderate	High	Low
Tarnach-----	10-20	---	---	---	0	---	Moderate	High	Low
Wesfil-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0692: Tarnach-----	10-20	---	---	---	0	---	Moderate	High	Low
Upatad-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Wesfil-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0700: Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Tulase-----	---	---	---	---	0	---	Moderate	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
0720: Mysol-----	---	---	---	---	0	---	Moderate	High	High
Mysol-----	---	---	---	---	0	---	Moderate	High	High
0730: Idway-----	---	---	---	---	0	---	Moderate	High	Low
Kawich-----	---	---	---	---	0	---	Low	High	High
Mysol-----	---	---	---	---	0	---	Moderate	High	High

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
0733: Idway-----	---	---	---	---	0	---	Moderate	High	Low
Idway-----	---	---	---	---	0	---	Moderate	High	Low
Mysol-----	---	---	---	---	0	---	Moderate	High	High
0740: Upatad-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Ploche-----	6-15	Bedrock (lithic)	---	Indurated	0	---	Low	Moderate	Low
Tarnach-----	10-20	---	---	---	0	---	Moderate	High	Low
0760: Playas-----	---	---	---	---	0	---	None	High	High
0761: Umberland-----	---	---	---	---	0	---	High	High	High
Umberland-----	---	---	---	---	0	---	High	High	High
0762: Umberland-----	---	---	---	---	0	---	High	High	High
Playas-----	---	---	---	---	0	---	None	High	High
0763: Equis-----	---	---	---	---	0	---	Moderate	High	High
Umberland-----	---	---	---	---	0	---	High	High	High
Duffer-----	---	---	---	---	0	---	High	High	High
0764: Umberland-----	---	---	---	---	0	---	High	High	High
Rubylake-----	---	---	---	---	0	---	High	High	High
Orupa-----	---	---	---	---	0	---	Moderate	High	High
0765: Umberland-----	---	---	---	---	0	---	High	High	High
Umberland-----	---	---	---	---	0	---	High	High	High
Wendane-----	---	---	---	---	0	---	High	High	High
0767: Umberland-----	---	---	---	---	0	---	High	High	High
Umberland-----	---	---	---	---	0	---	High	High	High
Orupa-----	---	---	---	---	0	---	Moderate	High	High
0781: Mysol-----	---	---	---	---	0	---	Moderate	High	High
Benin-----	---	---	---	---	0	---	Low	High	High
Wendane-----	---	---	---	---	0	---	High	High	High
0800: Mazuma-----	---	---	---	---	0	---	Low	High	High
Toano-----	---	---	---	---	0	---	Low	High	Moderate

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0801: Mazuma-----	---	---	---	---	0	---	Low	High	High
Zerk-----	---	---	---	---	0	---	Low	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0804: Mazuma-----	---	---	---	---	0	---	Low	High	High
Kawich-----	---	---	---	---	0	---	Low	High	High
Playas-----	---	---	---	---	0	---	None	High	High
0807: Mazuma-----	---	---	---	---	0	---	Low	High	High
Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Zerk-----	---	---	---	---	0	---	Low	High	Low
0823: Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Blimo-----	---	---	---	---	0	---	Moderate	High	High
0824: Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Katelana-----	---	---	---	---	0	---	Moderate	High	High
0827: Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
James Canyon---	---	---	---	---	0	---	High	Moderate	Low
James Canyon---	---	---	---	---	0	---	High	Moderate	Low
0828: Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Wendane-----	---	---	---	---	0	---	High	High	High
0830: Pharo-----	---	---	---	---	0	---	Moderate	High	Low
Kzin-----	4-12	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Pharo-----	---	---	---	---	0	---	Moderate	High	Low
0842: Katelana-----	---	---	---	---	0	---	Moderate	High	High
Timpie-----	---	---	---	---	0	---	High	High	High
0843: Katelana-----	---	---	---	---	0	---	Moderate	High	High
Kawich-----	---	---	---	---	0	---	Low	High	High

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
0845:									
Katelana-----	---	---	---	---	0	---	Moderate	High	High
Ragtown-----	---	---	---	---	0	---	Low	High	High
Timpie-----	---	---	---	---	0	---	High	High	High
0847:									
Mazuma-----	---	---	---	---	0	---	Low	High	High
Blimo-----	---	---	---	---	0	---	Moderate	High	High
Wintermute-----	---	---	---	---	0	---	Low	High	Low
0850:									
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
0851:									
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Zimbob-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0852:									
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0854:									
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0856:									
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Parisa-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
0857:									
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Shabliss-----	10-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
0858:									
Palinor-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
0870:									
Theriot-----	4-20	Bedrock (lithic)	---	Indurated	0	---	Low	High	Low
Zimbob-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0880: Duffer-----	---	---	---	---	0	---	High	High	High
Duffer-----	---	---	---	---	0	---	High	High	High
Kolda-----	---	---	---	---	0	---	High	High	High
0881: Duffer-----	---	---	---	---	0	---	High	High	High
Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
0882: Duffer-----	---	---	---	---	0	---	High	High	High
Kolda-----	---	---	---	---	0	---	High	High	High
0894: Zerk-----	---	---	---	---	0	---	Low	High	Low
Threesee-----	---	---	---	---	0	---	Low	High	Low
Mazuma-----	---	---	---	---	0	---	Low	High	High
0900: Zerk-----	---	---	---	---	0	---	Low	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
0910: Ragtown-----	---	---	---	---	0	---	Low	High	High
Ragtown-----	---	---	---	---	0	---	Low	High	High
0912: Katelana-----	---	---	---	---	0	---	Moderate	High	High
Katelana-----	---	---	---	---	0	---	Moderate	High	High
0914: Katelana-----	---	---	---	---	0	---	Moderate	High	High
Benin-----	---	---	---	---	0	---	Low	High	High
Sheffit-----	---	---	---	---	0	---	Moderate	High	High
0917: Katelana-----	---	---	---	---	0	---	Moderate	High	High
Sheffit-----	---	---	---	---	0	---	Moderate	High	High
Ragtown-----	---	---	---	---	0	---	Low	High	High
0918: Katelana-----	---	---	---	---	0	---	Moderate	High	High
Zorravista-----	---	---	---	---	0	---	Low	Moderate	Low
Playas-----	---	---	---	---	0	---	None	High	High
0930: Okan-----	---	---	---	---	0	---	Moderate	High	Low
Toano-----	---	---	---	---	0	---	Low	High	Moderate
Loray-----	---	---	---	---	0	---	Low	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
0932: Okan-----	---	---	---	---	0	---	Moderate	High	Low
Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
0941: Sheffit-----	---	---	---	---	0	---	Moderate	High	High
Sheffit-----	---	---	---	---	0	---	Moderate	High	High
Zorravista-----	---	---	---	---	0	---	Low	Moderate	Low
0943: Sheffit-----	---	---	---	---	0	---	Moderate	High	High
Umberland-----	---	---	---	---	0	---	High	High	High
0960: Gravier-----	---	---	---	---	0	---	Low	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
0961: Gravier-----	---	---	---	---	0	---	Low	High	Low
Piltown-----	---	---	---	---	0	---	Low	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
0972: Zimbob-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Zimbob-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0974: Zimbob-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0975: Zimbob-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0980: Onkeyo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Zimbob-----	10-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0990: Hyzen-----	6-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Zimbob-----	4-10	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
0991: Hyzen-----	6-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Cavehill-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
1000: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
1001: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
1002: Threesee-----	---	---	---	---	0	---	Low	High	Low
Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Threesee-----	---	---	---	---	0	---	Low	High	Low
1003: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Hundraw-----	4-10	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Tulase-----	---	---	---	---	0	---	Moderate	High	Low
1004: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Parisa-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Tulase-----	---	---	---	---	0	---	Moderate	High	Low
1005: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Zerk-----	---	---	---	---	0	---	Low	High	Low
Parisa-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
1006: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Blimo-----	---	---	---	---	0	---	Moderate	High	High
1007: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Parisa-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
1009: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Tulase-----	---	---	---	---	0	---	Moderate	High	Low
Wintermute-----	---	---	---	---	0	---	Low	High	Low
1020: Okan-----	---	---	---	---	0	---	Moderate	High	Low
Eastwell-----	10-20	Duripan	4-17	Indurated	0	---	Low	High	Low
Blimo-----	---	---	---	---	0	---	Moderate	High	High

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
1023: Okan-----	---	---	---	---	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
Katelana-----	---	---	---	---	0	---	Moderate	High	High
1030: Segura-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Bullump-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
Hutchley-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
1040: Segura-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Picche-----	6-15	Bedrock (lithic)	---	Indurated	0	---	Low	Moderate	Low
Chen-----	12-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	Moderate	Low
1061: Picche-----	6-15	Bedrock (lithic)	---	Indurated	0	---	Low	Moderate	Low
Cucamungo-----	14-20	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	High	Low
Rock Outcrop----	---	---	---	---	---	---	---	---	---
1070: Zafod-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Okan-----	---	---	---	---	0	---	Moderate	High	Low
1080: Cotant-----	12-20	Bedrock (paralithic)	---	Moderately cemented	0	---	Low	Moderate	Low
Segura-----	7-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1111: Parisa-----	20-40	Duripan	4-17	Indurated	0	---	Moderate	High	Low
1120: Okan-----	---	---	---	---	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
1150: Adobe-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Haunchee-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1161: Pharo-----	---	---	---	---	0	---	Moderate	High	Low
Bobs-----	10-20	Petrocalcic	4-17	---	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
1171: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Gravier-----	---	---	---	---	0	---	Low	High	Low
1172: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
1173: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Automal-----	---	---	---	---	0	---	Moderate	High	Low
1174: Pyrat-----	---	---	---	---	0	---	Moderate	High	Low
Tosser-----	---	---	---	---	0	---	Low	High	Moderate
1180: Haunchee-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Cavehill-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1181: Haunchee-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Halacan-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1190: Upatad-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Atlow-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Upatad-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1191: Upatad-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Picche-----	6-15	Bedrock (lithic)	---	Indurated	0	---	Low	Moderate	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
1200: Hardol-----	---	---	---	---	0	---	Moderate	High	Low
Hardzem-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	Moderate	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
1201: Hardol-----	---	---	---	---	0	---	Moderate	High	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
1210: Blimo-----	---	---	---	---	0	---	Moderate	High	High
Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
1213: Blimo-----	---	---	---	---	0	---	Moderate	High	High
Threese-----	---	---	---	---	0	---	Low	High	Low
1215: Blimo-----	---	---	---	---	0	---	Moderate	High	High
Zorravista-----	---	---	---	---	0	---	Low	Moderate	Low
1216: Blimo-----	---	---	---	---	0	---	Moderate	High	High
Idway-----	---	---	---	---	0	---	Moderate	High	Low
Mazuma-----	---	---	---	---	0	---	Low	High	High
1220: Onkeyo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Adobe-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1230: Hardzem-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	Moderate	Low
Haunchee-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1240: Benin-----	---	---	---	---	0	---	Low	High	High
Benin-----	---	---	---	---	0	---	Low	High	High
1241: Benin-----	---	---	---	---	0	---	Low	High	High
Playas-----	---	---	---	---	0	---	None	High	High
Benin-----	---	---	---	---	0	---	Low	High	High
1250: Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1270: Katelana-----	---	---	---	---	0	---	Moderate	High	High
Sheffit-----	---	---	---	---	0	---	Moderate	High	High
1271: Uvada-----	---	---	---	---	0	---	Low	High	High
Ragtown-----	---	---	---	---	0	---	Low	High	High

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
1272: Katelana-----	---	---	---	---	0	---	Moderate	High	High
Kawich-----	---	---	---	---	0	---	Low	High	High
1280: Sycomat-----	---	---	---	---	0	---	Low	High	Low
Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
1281: Sycomat-----	---	---	---	---	0	---	Low	High	Low
Mazuma-----	---	---	---	---	0	---	Low	High	High
1290: Heist-----	---	---	---	---	0	---	Moderate	High	Low
Blimo-----	---	---	---	---	0	---	Moderate	High	High
1300: Cavehill-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Haunches-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Hardzem-----	20-40	Bedrock (paralithic)	---	Moderately cemented	0	---	Moderate	Moderate	Low
1360: Toba-----	---	---	---	---	0	---	High	High	Moderate
Appian-----	---	---	---	---	0	---	Low	High	Moderate
1370: Orupa-----	---	---	---	---	0	---	Moderate	High	High
Playas-----	---	---	---	---	0	---	None	High	High
Boofuss-----	---	---	---	---	0	---	High	High	High
1380: Hulderman-----	---	---	---	---	0	---	High	High	Low
Toba-----	---	---	---	---	0	---	High	High	Moderate
Benin-----	---	---	---	---	0	---	Low	High	High
1390: Wendane-----	---	---	---	---	0	---	High	High	High
Mysol-----	---	---	---	---	0	---	Moderate	High	High
Toba-----	---	---	---	---	0	---	High	High	Moderate
1410: Threesee-----	---	---	---	---	0	---	Low	High	Low
Tosser-----	---	---	---	---	0	---	Low	High	Moderate
1411: Threesee-----	---	---	---	---	0	---	Low	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
Okan-----	---	---	---	---	0	---	Moderate	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel.	Concrete
	In		In		In	In			
1412: Threesee-----	---	---	---	---	0	---	Low	High	Low
Idway-----	---	---	---	---	0	---	Moderate	High	Low
1413: Idway-----	---	---	---	---	0	---	Moderate	High	Low
Zorravista-----	---	---	---	---	0	---	Low	Moderate	Low
Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
1414: Threesee-----	---	---	---	---	0	---	Low	High	Low
Shantown-----	---	---	---	---	0	---	Low	Moderate	Low
Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
1430: Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Rock Outcrop---	---	---	---	---	---	---	---	---	---
1440: Boofuss-----	---	---	---	---	0	---	High	High	High
Boofuss-----	---	---	---	---	0	---	High	High	High
Equis-----	---	---	---	---	0	---	Moderate	High	High
1441: Boofuss-----	---	---	---	---	0	---	High	High	High
Wendane-----	---	---	---	---	0	---	High	High	High
Umberland-----	---	---	---	---	0	---	High	High	High
1450: Piltown-----	---	---	---	---	0	---	Low	High	Low
Kawich-----	---	---	---	---	0	---	Low	High	High
1460: Tosser-----	---	---	---	---	0	---	Low	High	Moderate
Threesee-----	---	---	---	---	0	---	Low	High	Low
1471: Timpie-----	---	---	---	---	0	---	High	High	High
Kunzler-----	---	---	---	---	0	---	Moderate	High	Moderate
Threesee-----	---	---	---	---	0	---	Low	High	Low
1480: Tulase-----	---	---	---	---	0	---	Moderate	High	Low
Linoyer-----	---	---	---	---	0	---	Low	High	Moderate
1500: Tooele-----	---	---	---	---	0	---	Low	High	High
Loray-----	---	---	---	---	0	---	Low	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
1510: Izamatch-----	---	---	---	---	0	---	Low	High	Low
Cliffdown-----	---	---	---	---	0	---	Low	High	High
1520: Izamatch-----	---	---	---	---	0	---	Low	High	Low
Izamatch-----	---	---	---	---	0	---	Low	High	Low
Luning-----	---	---	---	---	0	---	Low	High	Low
1521: Izamatch-----	---	---	---	---	0	---	Low	High	Low
Izamatch-----	---	---	---	---	0	---	Low	High	Low
Theriot-----	4-20	Bedrock (lithic)	---	Indurated	0	---	Low	High	Low
1522: Izamatch-----	---	---	---	---	0	---	Low	High	Low
Smaug-----	---	---	---	---	0	---	Low	High	Moderate
Badland-----	---	---	---	---	0	---	None	High	High
1530: Theriot-----	4-20	Bedrock (lithic)	---	Indurated	0	---	Low	High	Low
Theriot-----	4-20	Bedrock (lithic)	---	Indurated	0	---	Low	High	Low
Izamatch-----	---	---	---	---	0	---	Low	High	Low
1531: Theriot-----	4-20	Bedrock (lithic)	---	Indurated	0	---	Low	High	Low
Izamatch-----	---	---	---	---	0	---	Low	High	Low
Rock Outcrop----	---	---	---	---	---	---	---	---	---
1532: Theriot-----	4-20	Bedrock (lithic)	---	Indurated	0	---	Low	High	Low
Theriot-----	4-20	Bedrock (lithic)	---	Indurated	0	---	Low	High	Low
Rock Outcrop----	---	---	---	---	---	---	---	---	---
1540: Kyler-----	6-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Amtoft-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Moderate
Amtoft-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Moderate
1541: Kyler-----	6-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Kyler-----	6-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Rock Outcrop----	---	---	---	---	---	---	---	---	---
1542: Kyler-----	6-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Amtoft-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Moderate
Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
					In	In			
1550: Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate
Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate
1560: Toano-----	---	---	---	---	0	---	Low	High	Moderate
Timpie-----	---	---	---	---	0	---	High	High	High
1570: Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate
Xeric Torriorthents--	---	---	---	---	0	---	Low	High	Low
1580: Armespan-----	---	---	---	---	0	---	Moderate	High	Low
Jericho-----	14-20	Duripan	4-17	Indurated	0	---	Moderate	High	Moderate
1581: Armespan-----	---	---	---	---	0	---	Moderate	High	Low
Kyler-----	6-14	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Heist-----	---	---	---	---	0	---	Moderate	High	Low
1582: Armespan-----	---	---	---	---	0	---	Moderate	High	Low
Xeric Torriorthents--	---	---	---	---	0	---	Low	High	Low
1590: Luning-----	---	---	---	---	0	---	Low	High	Low
Luning-----	---	---	---	---	0	---	Low	High	Low
Loray-----	---	---	---	---	0	---	Low	High	Low
1591: Luning-----	---	---	---	---	0	---	Low	High	Low
Izamatch-----	---	---	---	---	0	---	Low	High	Low
Badland-----	---	---	---	---	0	---	None	High	High
1600: Eaglepass-----	4-6	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Moderate
Amtoft-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Moderate
1610: Xeric Torriorthents--	---	---	---	---	0	---	Low	High	Low
Armespan-----	---	---	---	---	0	---	Moderate	High	Low
Badland-----	0-3	Bedrock (paralithic)	---	Moderately cemented	0	---	None	---	---
1620: Kolda-----	---	---	---	---	0	---	High	High	High
Duffer-----	---	---	---	---	0	---	High	High	High
Sonoma-----	---	---	---	---	0	---	High	High	Low

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
1621: Kolda-----	---	---	---	---	0	---	High	High	High
Rubylake-----	---	---	---	---	0	---	High	High	High
Kolda-----	---	---	---	---	0	---	High	High	High
1622: Kolda-----	---	---	---	---	0	---	High	High	High
1623: Kolda-----	---	---	---	---	0	---	High	High	High
Water-----	---	---	---	---	---	---	---	---	---
1630: Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Cavehill-----	20-40	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Rock Outcrop----	---	---	---	---	---	---	---	---	---
1631: Pookaloo-----	14-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Tecomar-----	10-20	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
Wardbay-----	40-60	Bedrock (lithic)	---	Indurated	0	---	Moderate	High	Low
1640: Jungo-----	---	---	---	---	0	---	Moderate	High	High
Jungo-----	---	---	---	---	0	---	Moderate	High	High
1650: Shantown-----	---	---	---	---	0	---	Low	Moderate	Low
Zorravista-----	---	---	---	---	0	---	Low	Moderate	Low
1651: Shantown-----	---	---	---	---	0	---	Low	Moderate	Low
Shantown-----	---	---	---	---	0	---	Low	Moderate	Low
1660: Wendane-----	---	---	---	---	0	---	High	High	High
Logan-----	---	---	---	---	0	---	High	High	Moderate
1670: Wendane-----	---	---	---	---	0	---	High	High	High
Logan-----	---	---	---	---	0	---	High	High	Moderate
Wendane-----	---	---	---	---	0	---	High	High	High
1680: Rubylake-----	---	---	---	---	0	---	High	High	High
Kolda-----	---	---	---	---	0	---	High	High	High
Wendane-----	---	---	---	---	0	---	High	High	High

TABLE 14.--SOIL FEATURES--Continued

Map symbol and soil name	Restrictions				Subsidence		Potential frost action	Risk of corrosion	
	Depth	Kind	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
	In		In		In	In			
1681: Wendane-----	---	---	---	---	0	---	High	High	High
Logan-----	---	---	---	---	0	---	High	High	Moderate
Umberland-----	---	---	---	---	0	---	High	High	High
1690: Krenka-----	---	---	---	---	0	---	Moderate	Moderate	Low
Secrepass-----	---	---	---	---	0	---	Moderate	Moderate	Low
1700: Heechee-----	---	---	---	---	0	---	Moderate	Moderate	Low
Rubicity-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
Heechee-----	---	---	---	---	0	---	Moderate	Moderate	Low
1702: Heechee-----	---	---	---	---	0	---	Moderate	Moderate	Low
McIvey-----	---	---	---	---	0	---	Moderate	Moderate	Low
Rubicity-----	---	---	---	---	0	---	Moderate	Moderate	Moderate
1710: James Canyon---	---	---	---	---	0	---	High	Moderate	Low
Wendane-----	---	---	---	---	0	---	High	High	High
1711: James Canyon---	---	---	---	---	0	---	High	Moderate	Low
Wendane-----	---	---	---	---	0	---	High	High	High
Wendane-----	---	---	---	---	0	---	High	High	High
1720: Welch-----	---	---	---	---	0	---	High	Moderate	Low
1721: Welch-----	---	---	---	---	0	---	High	Moderate	Low
Welsum-----	---	---	---	---	0	---	High	High	Low
1722: Welch-----	---	---	---	---	0	---	High	Moderate	Low
Slipback-----	---	---	---	---	0	---	Moderate	High	High
Welch-----	---	---	---	---	0	---	High	Moderate	Low
1723: Welch-----	---	---	---	---	0	---	High	Moderate	Low
Welch-----	---	---	---	---	0	---	High	Moderate	Low
1730: McIvey-----	---	---	---	---	0	---	Moderate	Moderate	Low
Donna-----	20-36	Duripan	4-17	Indurated	0	---	Moderate	High	Low

TABLE 15.--CLASSIFICATION OF THE SOILS

(An asterisk in the first column indicates that the soil is a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series)

Soil name	Family or higher taxonomic class
Adobe-----	Loamy-skeletal, carbonatic Lithic Cryoborolls
Amene-----	Loamy-skeletal, carbonatic, frigid Lithic Calcixerolls
Amtoft-----	Loamy-skeletal, carbonatic, mesic Lithic Xerollic Calciorrhids
Appian-----	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Typic Natrargids
Armespan-----	Loamy-skeletal, mixed, mesic Durixerollic Calciorrhids
Atlow-----	Loamy-skeletal, mixed, mesic Lithic Xerollic Haplargids
Automal-----	Loamy-skeletal, mixed, mesic Durixerollic Calciorrhids
Belsac-----	Loamy-skeletal, mixed Pachic Cryoborolls
Benin-----	Fine, montmorillonitic (calcareous), mesic Typic Torriorthents
Bijorja-----	Coarse-loamy, mixed, mesic Xerollic Camborhids
Blimo-----	Coarse-loamy, mixed (calcareous), mesic Durorthidic Xeric Torriorthents
Bobs-----	Loamy, carbonatic, frigid, shallow Petrocalcic Palexerolls
Boofuss-----	Clayey over loamy, montmorillonitic (calcareous), mesic Typic Halaquepts
Bullump-----	Loamy-skeletal, mixed, frigid Pachic Argixerolls
Cavehill-----	Loamy-skeletal, carbonatic, frigid Typic Calcixerolls
Chen-----	Clayey-skeletal, montmorillonitic, frigid Lithic Argixerolls
Chiara-----	Loamy, mixed, mesic, shallow Xerollic Durorhids
Cleavage-----	Loamy-skeletal, mixed, frigid Lithic Argixerolls
Cliffdown-----	Loamy-skeletal, mixed (calcareous), mesic Typic Torriorthents
Cobre-----	Ashy, mesic Vitrikerandic Camborhids
Cotant-----	Clayey, montmorillonitic, frigid, shallow Aridic Argixerolls
Cropper-----	Loamy-skeletal, mixed, frigid Lithic Argixerolls
Cucamungo-----	Loamy-skeletal, mixed, frigid, shallow Typic Argixerolls
Dacker-----	Fine-loamy, mixed, mesic Xerollic Durargids
Devilsgait-----	Fine-silty, mixed (calcareous), mesic Cumulic Endoaquolls
Dewar-----	Loamy, mixed, mesic, shallow Xerollic Durargids
Donna-----	Very-fine, montmorillonitic, frigid Abruptic Aridic Durixerolls
Duffer-----	Fine-silty, carbonatic, mesic Aquic Calciorrhids
Eaglepass-----	Loamy-skeletal, carbonatic, mesic Lithic Xeric Torriorthents
Eastwell-----	Loamy-skeletal, mixed, mesic, shallow Haploxerollic Durorhids
Enko-----	Coarse-loamy, mixed, mesic Durixerollic Camborhids
Equis-----	Fine, carbonatic, mesic Typic Halaquepts
Gance-----	Clayey-skeletal, montmorillonitic, mesic Durixerollic Haplargids
Gollaher-----	Loamy-skeletal, carbonatic, frigid Lithic Xerorhents
Graley-----	Clayey-skeletal, montmorillonitic, frigid Lithic Argixerolls
Gravler-----	Loamy-skeletal, mixed, mesic Typic Calciorrhids
Halacac-----	Loamy-skeletal, carbonatic Cryic Lithic Rendolls
Halleck-----	Fine-silty, mixed (calcareous), frigid Cumulic Endoaquolls
Happgood-----	Loamy-skeletal, mixed Pachic Cryoborolls
Hardhat-----	Coarse-loamy, mixed (calcareous), mesic Durorthidic Torriorthents
Hardol-----	Loamy-skeletal, carbonatic Calcic Pachic Cryoborolls
Hardzem-----	Loamy-skeletal, mixed Typic Cryoborolls
Haunchee-----	Loamy-skeletal, carbonatic Cryic Lithic Rendolls
Heechee-----	Loamy-skeletal, mixed, frigid Typic Argixerolls
Heist-----	Coarse-loamy, mixed (calcareous), mesic Xeric Torriorthents
Hendap-----	Loamy-skeletal, mixed, mesic Lithic Haploxerolls
Holborn-----	Loamy, mixed (calcareous), mesic, shallow Xeric Torriorthents
Hopeka-----	Loamy-skeletal, carbonatic, frigid Lithic Xeric Torriorthents
Hulderman-----	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Duric Endoaquolls
Hundraw-----	Loamy, mixed (calcareous), mesic, shallow Xeric Torriorthents
Hunnton-----	Fine, montmorillonitic, mesic Xerollic Durargids
Hussa-----	Fine-loamy, mixed (calcareous), frigid Fluvaquentic Endoaquolls
Hutchley-----	Loamy-skeletal, mixed, frigid Lithic Argixerolls
Hyzen-----	Loamy-skeletal, carbonatic, frigid Lithic Haploxerolls
Idway-----	Coarse-loamy over sandy or sandy-skeletal, mixed, mesic Durixerollic Camborhids
Izamatch-----	Sandy-skeletal, mixed, mesic Typic Torriorthents
Izar-----	Loamy-skeletal, mixed (calcareous), mesic Lithic Xeric Torriorthents
Jackpot-----	Ashy, mesic, shallow Vitrikerandic Camborhids
James Canyon-----	Fine-loamy, mixed, mesic Cumulic Endoaquolls
Jericho-----	Loamy-skeletal, mixed, mesic, shallow Xerollic Durorhids
Jungo-----	Loamy-skeletal, mixed, mesic Xerollic Haplargids
Katelana-----	Fine-silty, carbonatic, mesic Typic Torriorthents
Kawich-----	Mixed, mesic Typic Torripsamments
Kelk-----	Fine-silty, mixed, mesic Durixerollic Camborhids
Kolda-----	Fine, montmorillonitic (calcareous), mesic Typic Endoaquolls
Krenka-----	Loamy-skeletal, mixed, frigid Pachic Argixerolls

TABLE 15.--CLASSIFICATION OF THE SOILS--Continued

Soil name	Family or higher taxonomic class
Kunzler-----	Coarse-loamy, mixed, mesic Durixerollic Calciorthids
Kyler-----	Loamy-skeletal, carbonatic, mesic Lithic Xeric Torriorthents
Kzin-----	Loamy-skeletal, mixed (calcareous), mesic, shallow Xeric Torriorthents
Linyer-----	Coarse-silty, mixed (calcareous), mesic Xeric Torriorthents
Logan-----	Fine-silty, mesic Typic Calciaquolls
Lomoin-----	Loamy-skeletal, mixed (calcareous), mesic Lithic Xeric Torriorthents
Loray-----	Sandy-skeletal, mixed, mesic Typic Calciorthids
Luning-----	Sandy, mixed, mesic Typic Torriorthents
Lykal-----	Coarse-silty, carbonatic, mesic Aeric Fluvaquents
Mazuma-----	Coarse-loamy, mixed (calcareous), mesic Typic Torriorthents
McIvey-----	Clayey-skeletal, montmorillonitic, frigid Typic Argixerolls
Mizpah-----	Fine, montmorillonitic, mesic Typic Paleargids
Muiral-----	Loamy-skeletal, mixed Typic Cryochrepts
Mysol-----	Fine-loamy over sandy or sandy-skeletal, mixed (calcareous), mesic Durorathidic Torriorthents
Nevador-----	Fine-loamy, mixed, mesic Durixerollic Haplargids
Okan-----	Coarse-loamy, mixed (calcareous), mesic Durorathidic Xeric Torriorthents
Onkeyo-----	Loamy-skeletal, mixed, frigid Lithic Calcixerolls
Orupa-----	Fine, montmorillonitic (calcareous), mesic Xeric Torriorthents
Oupico-----	Coarse-loamy, mixed, mesic Xerollic Durorathids
Palinor-----	Loamy-skeletal, carbonatic, mesic, shallow Xerollic Durorathids
Parisa-----	Loamy-skeletal, carbonatic, mesic Xerollic Durorathids
Peeko-----	Loamy, mixed, mesic, shallow Xerollic Durorathids
Pharo-----	Loamy-skeletal, carbonatic, mesic Aridic Calcixerolls
Piltown-----	Coarse-loamy, mixed (calcareous), mesic Typic Torriorthents
Pioche-----	Clayey-skeletal, montmorillonitic, mesic Lithic Argixerolls
Pookaloo-----	Loamy-skeletal, carbonatic, mesic Lithic Xerollic Calciorthids
Pyrat-----	Loamy-skeletal, mixed, mesic Durixerollic Calciorthids
Ragtown-----	Fine, montmorillonitic (calcareous), mesic Typic Torriorthents
Rozara-----	Loamy-skeletal, mixed, frigid Lithic Argixerolls
Rubicity-----	Coarse-loamy, mixed, frigid Cumulic Haploxerolls
Rubylake-----	Fine-silty, carbonatic, mesic Mollic Fluvaquents
Saltair-----	Fine-silty, mixed, mesic Typic Salorhids
Schoer-----	Fine, montmorillonitic, mesic Aridic Argixerolls
Secrepass-----	Clayey-skeletal, montmorillonitic, frigid Typic Palexerolls
Segura-----	Loamy, mixed, frigid Lithic Argixerolls
Shabliss-----	Loamy, mixed, mesic, shallow Haploxerollic Durorathids
Shantown-----	Coarse-loamy, mixed, mesic Aridic Haploxerolls
Sheffit-----	Fine, montmorillonitic (calcareous), mesic Xeric Torriorthents
Shuttle-----	Coarse-loamy, mixed (calcareous), mesic Durorathidic Torriorthents
Simon-----	Fine-loamy, mixed, frigid Aridic Argixerolls
Slipback-----	Fine-loamy, mixed, mesic Xerollic Natrargids
Smaug-----	Coarse-silty, mixed (calcareous), mesic Typic Torriorthents
Sodhouse-----	Loamy, mixed, mesic, shallow Typic Durorathids
Sonoma-----	Fine-silty, mixed (calcareous), mesic Aeric Fluvaquents
Stampede-----	Fine, montmorillonitic, frigid Aridic Durixerolls
Stewval-----	Loamy-skeletal, mixed, mesic Lithic Xerollic Haplargids
Sumine-----	Loamy-skeletal, mixed, frigid Aridic Argixerolls
Sycomat-----	Coarse-loamy, mixed, mesic Duric Calciorthids
Tarnach-----	Loamy-skeletal, mixed, mesic Lithic Xerollic Calciorthids
Tecomar-----	Loamy-skeletal, carbonatic, mesic Lithic Xerollic Calciorthids
Theriot-----	Loamy-skeletal, carbonatic, mesic Lithic Torriorthents
Threesee-----	Sandy-skeletal, mixed, mesic Xerollic Calciorthids
Timple-----	Fine-silty, mixed (calcareous), mesic Typic Torriorthents
Toano-----	Coarse-silty, mixed (calcareous), mesic Typic Torriorthents
Toba-----	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Aquic Calciorthids
Tocele-----	Coarse-loamy, mixed (calcareous), mesic Typic Torriorthents
Tosser-----	Sandy-skeletal, mixed, mesic Xerollic Calciorthids
Tulase-----	Coarse-silty, mixed (calcareous), mesic Durorathidic Xeric Torriorthents
Tusel-----	Loamy-skeletal, mixed Argic Pachic Cryoborolls
Umerland-----	Fine, montmorillonitic (calcareous), mesic Aeric Halaquepts
Upatad-----	Loamy-skeletal, mixed, mesic Lithic Argixerolls
Urmafot-----	Loamy, mixed, mesic, shallow Orthidic Durixerolls
Uvada-----	Fine, montmorillonitic, mesic Typic Natrargids
Valmy-----	Coarse-loamy, mixed (calcareous), mesic Durorathidic Torriorthents
Wardbay-----	Loamy-skeletal, carbonatic, frigid Pachic Calcixerolls
Welch-----	Fine-loamy, mixed, frigid Cumulic Endoaquolls

TABLE 15.--CLASSIFICATION OF THE SOILS--Continued

Soil name	Family or higher taxonomic class
Welsum-----	Fine-loamy over sandy or sandy-skeletal, mixed (calcareous), frigid Cumulic Endoaquolls
Wendane-----	Fine-silty, mixed (calcareous), mesic Aeric Halaquepts
Wesfil-----	Loamy-skeletal, mixed (calcareous), mesic Lithic Xeric Torriorthents
Wintermute-----	Loamy-skeletal, mixed, mesic Duric Calciorthids
Xeric Torriorthents-----	Mesic Xeric Torriorthents
Zafod-----	Loamy-skeletal, mixed, mesic Haploxerollic Durorthids
Zerk-----	Sandy-skeletal, mixed, mesic Duric Calciorthids
Zimbob-----	Loamy-skeletal, carbonatic, mesic Lithic Xeric Torriorthents
Zorravista-----	Mixed, mesic Xeric Torripsamments

RANGELAND PLANTS AND WOODLAND UNDERSTORY

053--PALINOR-URMAPOT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PALINOR	URMAPOT	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	10-20	40-50	20-35	20-35	---
Sandberg bluegrass	POSE	2-8	---	---	2-8	2-8	---
bluebunch wheatgrass	AGSP	---	20-40	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	---	2-5	2-5	2-5	---
muttongrass	POFE	---	2-8	---	---	---	---
needleandthread	STCO4	5-15	2-5	---	5-15	5-15	---
globemallow	SPHAE	---	---	1-5	---	---	---
black sagebrush	ARARN	25-35	20-30	---	25-35	25-35	---
downy rabbitbrush	CHVIP4	2-5	---	---	2-5	2-5	---
shadscale	ATCO	2-5	---	25-35	2-5	2-5	---
winterfat	EULAS	---	2-5	5-10	---	---	---
Range site number		028BY011NV	028BY006NV	028BY075NV	028BY011NV	028BY011NV	None
Potential production (lb/acre):							
Favorable years		600	800	700	600	600	
Normal years		450	600	500	450	450	
Unfavorable years		250	400	300	250	250	

062--AMTOFT-ROCK OUTCROP ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		AMTOFT	ROCK OUTCROP	AMTOFT	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	5-15	---	15-25	10-25	20-30	15-25	2-10
Sandberg bluegrass	POSE	---	---	2-5	2-5	---	---	2-8
blue grama	BOGR2	1-5	---	---	---	---	---	---
bluebunch wheatgrass	AGSP	30-40	---	2-8	---	---	---	---
bluegrass	POA++	2-5	---	---	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	2-5	---	---	---	---
galleta	HIJA	---	---	2-8	2-8	2-5	2-8	1-5
needleandthread	STCO4	2-5	---	---	2-10	15-25	5-15	1-5
sand dropseed	SPCR	---	---	---	---	2-5	---	---
globemallow	SPHAE	---	---	---	---	2-5	---	---
Nevada ephedra	EPNE	---	---	---	---	---	5-15	5-10
Stansbury cliffrose	COMES	2-8	---	---	---	---	---	---
Utah juniper	JUOS	---	---	5-15	---	---	---	---
big sagebrush	ARTR2	---	---	---	---	---	---	30-45
black sagebrush	ARARN	25-35	---	40-50	15-30	15-30	15-35	---
fourwing saltbush	ATCA2	---	---	---	---	2-8	---	---
horsebrush	TETRA3	---	---	---	---	---	5-15	2-8
other shrubs	SSSS	---	---	---	---	---	---	5-25
rubber rabbitbrush	CHNA2	---	---	---	---	---	---	5-20
shadscale	ATCO	---	---	---	2-5	---	2-8	---
spiny hopsage	GRSP	---	---	---	---	---	---	2-8
winterfat	EULA5	---	---	---	5-10	2-5	2-8	---
Range site number		028AY034NV	None	028AY027NV	028AY004NV	028AY013NV	028AY044NV	028AY038NV
Potential production (lb/acre):								
Favorable years		600		400	500	700	600	1300
Normal years		400		350	325	500	400	730
Unfavorable years		200		125	100	300	200	530

066--ZIMBOB ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		ZIMBOB	ZIMBOB	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	15-25	20-35	20-30	---	5-10
Sandberg bluegrass	POSE	2-5	2-5	2-8	2-5	---	2-5
Scribner needlegrass	STSC2	---	2-5	---	---	---	2-5
bluebunch wheatgrass	AGSP	---	2-5	---	---	---	15-25
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	2-8	---	---
needleandthread	STCO4	10-20	---	5-15	10-20	---	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	2-5
Mexican cliffrose	COMB5	---	---	---	---	---	1-10
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	---
black sagebrush	ARARN	35-45	30-35	25-35	---	---	30-40
downy rabbitbrush	CHVIP4	---	---	2-5	---	---	---
rabbitbrush	CHRY89	---	---	---	2-5	---	---
shadscale	ATCO	2-5	---	2-5	---	---	---
singleleaf pinyon	FIMO	---	---	---	---	---	10-15
Range site number		028BY016NV	028BY059NV	028BY011NV	028BY010NV	None	028BY090NV
Potential production (lb/acre):							
Favorable years		350	400	600	800		400
Normal years		225	350	450	600		250
Unfavorable years		100	125	250	400		125

067--TECOMar-TECOMar, DRY-POOKALOO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		TECOMar	TECOMar	POOKALOO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	10-20	5-10	X	10-20	15-30	---
Sandberg bluegrass	POSE	---	2-5	---	2-5	---	---
Scribner needlegrass	STSC2	---	2-5	---	---	---	---
Thurber needlegrass	STTE2	---	---	X	---	---	---
basin wildrye	ELCI2	---	---	X	---	---	---
bluebunch wheatgrass	AGSP	20-40	15-25	X	---	30-40	---
bluegrass	POA++	2-5	---	X	---	5-10	---
bottlebrush squirreltail	SIHY	---	---	X	2-5	---	---
needleandthread	STCO4	2-5	---	---	10-20	---	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	---
goldenweed	HAPLO2	2-5	---	---	---	---	---
tapertip hawksbeard	CRAC2	2-5	---	X	---	---	---
Douglas rabbitbrush	CHVI8	---	2-5	---	---	---	---
Mexican cliffrose	COMES	---	1-10	---	---	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---
antelope bitterbrush	PUTR2	---	---	X	---	5-10	---
black sagebrush	ARARN	25-35	30-40	X	35-45	---	---
curlleaf mountainmahogany	CELE3	---	---	X	---	---	---
mountain big sagebrush	ARVA2	---	---	---	---	15-25	---
serviceberry	AMELA	---	---	X	---	---	---
shadscale	ATCO	2-5	---	---	2-5	---	---
winterfat	EULA5	2-5	---	---	---	---	---
Utah juniper	JUOS	---	---	X	---	---	---
singleleaf pinyon	PIMO	---	10-15	X	---	---	---

Range site number	028BY008NV	028BY090NV	028BY060NV	028BY016NV	028BY079NV	None
Potential production (lb/acre):						
Favorable years	600	400	500	350	700	
Normal years	400	250	300	225	500	
Unfavorable years	200	125	250	100	300	

069--ZIMBOB-HYZEN-ROCK OUTCROP ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ZIMBOB	HYZEN	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	2-5	---	15-25	15-25	20-30	10-20
Sandberg bluegrass	POSE	2-5	---	---	2-5	2-5	2-5	---
Scribner needlegrass	STSC2	---	2-10	---	---	2-5	---	---
bluebunch wheatgrass	AGSP	---	---	---	---	2-5	---	20-40
bottlebrush squirreltail	SIHY	2-5	---	---	2-5	2-5	2-8	---
muttongrass	POFE	---	---	---	---	---	---	2-8
needleandthread	STCO4	10-20	---	---	10-20	---	10-20	2-5
goldenweed	HAPLO2	---	2-5	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	25-35	---
black sagebrush	ARARN	35-45	2-8	---	---	30-35	---	20-30
bud sagebrush	ARSP5	---	---	---	10-15	---	---	---
desert snowberry	SYLO	---	2-8	---	---	---	---	---
littleleaf mountainmahogany	CEIN7	---	60-70	---	---	---	---	---
rabbitbrush	CHRS9	---	---	---	---	---	2-5	---
shadscale	ATCO	2-5	---	---	40-50	---	---	---
winterfat	EULA5	---	---	---	---	---	---	2-5
Range site number		028BY016NV	028BY066NV	None	028BY019NV	028BY059NV	028BY010NV	028BY006NV
Potential production (lb/acre):								
Favorable years		350	1300		300	400	800	800
Normal years		225	1000		225	350	600	600
Unfavorable years		100	800		100	125	400	400

070--STEWVAL-EASTWELL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		STEWVAL	EASTWELL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	10-25	20-35	15-25	40-50	40-50
Sandberg bluegrass	POSE	2-5	2-8	---	---	---
bluegrass	POA++	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	---	2-5	---	2-5	2-5
galleta	HIJA	2-8	---	---	---	---
needleandthread	STCO4	2-10	5-15	5-10	---	---
globemallow	SPAE	---	---	2-5	1-5	1-5
black sagebrush	ARARN	15-30	25-35	15-25	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---
shadscale	ATCO	2-5	2-5	---	25-35	25-35
spiny hopsage	GRSP	---	---	20-30	---	---
winterfat	EULA5	5-10	---	---	5-10	5-10
Range site number		028AY004NV	028BY011NV	028BY053NV	028BY075NV	028BY075NV
Potential production (lb/acre):						
Favorable years		500	600	600	700	700
Normal years		325	450	400	500	500
Unfavorable years		100	250	200	300	300

071--STEWVAL-WESFIL-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		STEWVAL	WESFIL	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	FOCA	---	---	---	---	X	---	---
Indian ricegrass	ORHY	2-5	20-30	---	2-5	X	15-25	20-30
Sandberg bluegrass	POSE	---	---	---	---	X	---	---
Thurber needlegrass	STH2	10-20	15-25	---	10-20	X	---	---
basin wildrye	ELCI2	---	---	---	---	X	---	---
bluebunch wheatgrass	AGSP	20-30	---	---	20-30	X	---	---
bluegrass	POA++	2-8	---	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	X	2-5	---
galleta	HIJA	---	---	---	---	---	2-5	2-5
needleandthread	STCO4	---	2-8	---	2-5	---	5-10	15-25
sand dropseed	SPCR	---	---	---	---	---	---	2-5
wheatgrass	AGROP2	---	---	---	---	---	---	2-8
arrowleaf balsamroot	BASA3	---	---	---	---	X	---	---
crag aster	ASSC3	---	---	---	2-5	---	---	---
scarlet globemallow	SPCO	---	---	---	---	---	2-5	---
tapertip hawksbeard	CRAC2	---	---	---	2-5	X	---	---
Wyoming big sagebrush	ARTRW	---	---	---	20-30	---	25-35	10-20
antelope bitterbrush	PUTR2	---	---	---	---	X	---	---
black sagebrush	ARARN	25-35	20-35	---	---	---	---	---
bud sagebrush	ARSP5	---	---	---	---	---	2-5	---
ephedra	EPHED	---	---	---	---	X	---	---
fourwing saltbush	ATCA2	---	---	---	---	---	---	5-15
mountain big sagebrush	ARVA2	---	---	---	---	X	---	---
serviceberry	AMELA	---	---	---	---	X	---	---
shadscale	ATCO	---	---	---	---	---	2-5	---
spiny hopsage	GRSP	---	---	---	2-5	---	5-15	---
winterfat	EULAS	---	---	---	---	---	---	5-10
Utah juniper	JUOS	---	---	---	---	X	---	---
singleleaf pinyon	PIMO	---	---	---	---	X	---	---

Range site number	028AY036NV	028AY035NV	None	028AY022NV	028BY062NV	028AY028NV	028AY005NV
Potential production (lb/acre):							
Favorable years	800	450		800	700	900	1000
Normal years	600	300		600	500	700	700
Unfavorable years	400	150		350	300	400	400

080--STEWVAL VERY GRAVELLY FINE SANDY LOAM, 8 TO 30 PERCENT SLOPES

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		STEWVAL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	10-25	40-50	10-25	40-50
Sandberg bluegrass	POSE	2-5	---	2-5	---
bottlebrush squirreltail	SIHY	---	2-5	---	2-5
galleta	HIJA	2-8	---	2-8	---
needleandthread	STCO4	2-10	---	2-10	---
globemallow	SPHA8	---	1-5	---	1-5
black sagebrush	ARARN	15-30	---	15-30	---
shadscale	ATCO	2-5	25-35	2-5	25-35
winterfat	EULA5	5-10	5-10	5-10	5-10
Range site number		028AY004NV	028BY075NV	028AY004NV	028BY075NV
Potential production (lb/acre):					
Favorable years		500	700	500	700
Normal years		325	500	325	500
Unfavorable years		100	300	100	300

092--WESFIL-WINTERMUTE-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		WESFIL	WINTERMUTE	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	40-50	15-25	20-35	2-10	5-10	15-25
Sandberg bluegrass	POSE	2-5	---	---	2-8	2-5	---	---
basin wildrye	ELCI2	---	---	---	---	---	2-5	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	2-5	2-5	---	5-10
needleandthread	STCO4	10-20	---	5-10	5-15	2-10	---	---
other perennial grasses	PPGG	---	---	---	---	---	---	2-5
thickspike wheatgrass	AGDA	---	---	---	---	---	2-5	---
globemallow	SPHA2	---	1-5	---	---	---	---	2-5
scarlet globemallow	SPCO	---	---	2-5	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	20-35	---	---	---	---
black greasewood	SAVE4	---	---	---	---	---	40-60	---
black sagebrush	ARARN	35-45	---	---	25-35	---	---	---
bud sagebrush	AR8P5	---	---	---	---	---	---	2-8
downy rabbitbrush	CHVIP4	---	---	---	2-5	---	---	---
fourwing saltbush	ATCA2	---	---	---	---	---	5-10	2-5
pigmy sagebrush	ARPY2	---	---	---	---	50-70	---	---
shadscale	ATCO	2-5	25-35	2-5	2-5	---	5-10	---
spiny hopsage	GR8P	---	---	5-20	---	---	---	---
winterfat	EULA5	---	5-10	---	---	---	---	40-50
Range site number		028BY016NV	028BY075NV	028BY052NV	028BY011NV	028BY040NV	028BY021NV	028BY013NV
Potential production (lb/acre):								
Favorable years		350	700	800	600	250	400	700
Normal years		225	500	600	450	175	300	500
Unfavorable years		100	300	450	250	100	200	350

098--WESFIL-TARNACH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		WESFIL	TARNACH	WESFIL	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	5-15	10-25	15-25	---	15-25	2-10
Sandberg bluegrass	POSE	2-5	---	2-5	---	---	2-5	2-5
blue grama	BOGR2	---	1-5	---	---	---	---	---
bluebunch wheatgrass	AGSP	---	30-40	---	---	---	2-8	---
bluegrass	POA++	---	2-5	---	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	2-5	---	---	---
galleta	HIJA	2-8	---	2-8	2-5	---	2-8	2-5
needleandthread	STCO4	2-10	2-5	2-10	5-10	---	---	2-10
scarlet globemallow	SFCO	---	---	---	2-5	---	---	---
Stansbury cliffrose	COMES	---	2-8	---	---	---	---	---
Utah juniper	JUOS	---	---	---	---	---	5-15	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	---	---
black sagebrush	ARARN	15-30	25-35	15-30	---	---	40-50	---
bud sagebrush	ARSP5	---	---	---	2-5	---	---	---
pigmy sagebrush	ARPY2	---	---	---	---	---	---	50-70
shadscale	ATCO	2-5	---	2-5	2-5	---	---	---
spiny hopsage	GRSP	---	---	---	5-15	---	---	---
winterfat	EULAS	5-10	---	5-10	---	---	---	---

Range site number	028AY004NV	028AY034NV	028AY004NV	028AY028NV	None	028AY027NV	028AY007NV
Potential production (lb/acre):							
Favorable years	500	600	500	900		400	250
Normal years	325	400	325	700		350	175
Unfavorable years	100	200	100	400		125	100

099--WESFIL-ARMESPAN-HEIST ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		WESFIL	ARMESPAN	HEIST	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	10-25	40-50	X	15-25	5-15	40-50
Sandberg bluegrass	POSE	2-5	2-5	---	X	2-5	---	---
blue grama	BOGR2	---	---	---	---	---	1-5	---
bluebunch wheatgrass	AGSP	---	---	---	---	---	30-40	---
bluegrass	POA++	---	---	---	---	---	2-5	---
bottlebrush squirreltail	SIHY	---	---	2-5	X	---	---	---
galleta	HIJA	2-8	2-8	---	X	1-5	---	2-8
needleandthread	STCO4	2-10	2-10	---	X	5-10	2-5	---
King birdbeak	COKI	---	---	---	X	---	---	---
erigonum	ERIOG	---	---	---	X	---	---	---
globemallow	SPHA	---	---	---	---	2-5	---	2-5
phlox	PHLOX	---	---	---	X	---	---	---
Douglas rabbitbrush	CHVI8	---	---	---	X	---	---	---
Stansbury cliffrose	COMES	---	---	---	---	---	2-8	---
Utah juniper	JUOS	---	---	---	X	---	---	---
black sagebrush	ARARN	15-30	15-30	---	X	15-25	25-35	---
bud sagebrush	ARSP5	---	---	5-15	---	---	---	2-8
green sphaedra	EPVI	---	---	---	X	---	---	---
pricklypear	OPUNT	---	---	---	X	---	---	---
shadscale	ATCO	2-5	2-5	---	---	---	---	1-5
spiny hopsage	GRSP	---	---	---	---	20-30	---	---
winterfat	EULA5	5-10	5-10	20-30	---	---	---	25-30

Range site number	028AY004NV	028AY004NV	028BY084NV	028AY041NV	028AY047NV	028AY034NV	028AY002NV
Potential production (lb/acre):							
Favorable years	500	500	900	400	600	600	800
Normal years	325	325	700	250	400	400	600
Unfavorable years	100	100	400	150	200	200	400

100--BENIN-MAZUMA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		BENIN	MAZUMA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	---	2-5	2-8	30-35	2-8	30-35
alkali sacaton	SPAI	5-10	---	---	5-10	---	5-10
basin wildrye	ELCI2	2-5	---	---	---	---	---
bottlebrush squirreltail	SIHY	---	2-5	2-5	2-5	2-5	2-5
inland saltgrass	DISPS2	2-8	---	---	---	---	---
thickspike wheatgrass	AGDA	---	---	---	2-5	---	2-5
western wheatgrass	AGSM	---	---	5-15	---	5-15	---
black greasewood	SAVE4	60-75	20-30	---	10-20	---	10-20
bud sagebrush	ARSP5	---	2-10	---	---	---	---
fourwing saltbush	ATCA2	---	---	---	30-40	---	30-40
rubber rabbitbrush	CHNA2	2-5	---	---	---	---	---
shadscale	ATCO	2-5	20-50	2-5	---	2-5	---
sickle saltbush	ATFA	---	---	55-65	---	55-65	---
spiny hopsage	GRSP	---	---	---	2-8	---	2-8
winterfat	EULA5	---	---	5-15	---	5-15	---
Range site number		028BY020NV	028BY074NV	028BY047NV	028AY011NV	028BY047NV	028AY011NV
Potential production (lb/acre):							
Favorable years		500	600	500	700	500	700
Normal years		300	400	350	500	350	500
Unfavorable years		150	200	200	350	200	350

101--TOANO-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		TOANO	LINOYER	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-8	15-25	40-50	1-5
bottlebrush squirreltail	SIHY	2-5	5-10	2-5	5-10
other perennial grasses	PFGG	---	2-5	---	---
western wheatgrass	AGSM	5-15	---	---	---
globemallow	SPHAE	---	2-5	---	---
bud sagebrush	ARSP5	---	2-8	5-15	---
fourwing saltbush	ATCA2	---	2-5	---	---
shadscale	ATCO	2-5	---	---	85-90
sickle saltbush	ATFA	55-65	---	---	---
winterfat	EULA5	5-15	40-50	20-30	---
Range site number		028BY047NV	028BY013NV	028BY084NV	028BY073NV
Potential production (lb/acre):					
Favorable years		500	700	900	400
Normal years		350	500	700	300
Unfavorable years		200	350	400	200

103--BENIN-PLAYAS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		BENIN	PLAYAS	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	2-5	2-10	---
alkali sacaton	SPAI	5-10	---	---	---	15-40
basin wildrye	ELCI2	2-5	---	---	10-20	40-60
bottlebrush squirreltail	SIHY	---	---	2-5	---	---
inland saltgrass	DISPS2	2-8	---	---	---	2-5
western wheatgrass	AGSM	---	---	---	---	2-5
big sagebrush	ARTR2	---	---	---	20-30	---
black greasewood	SAVE4	60-75	---	20-30	30-40	5-15
bud sagebrush	ARSP5	---	---	2-10	---	---
rubber rabbitbrush	CHNA2	2-5	---	---	2-5	2-5
shadscale	ATCO	2-5	---	20-50	---	---
Range site number		028BY020NV	None	028BY074NV	028BY028NV	028BY004NV
Potential production (lb/acre):						
Favorable years		500		600	800	2200
Normal years		300		400	600	1500
Unfavorable years		150		200	400	800

111--GRAVIER-ARMESPAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		GRAVIER	ARMESPAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	35-45	20-30	10-25	15-25	10-25	1-5
King desertgrass	BLKI	---	---	---	2-5	---	---
Sandberg bluegrass	POSE	---	---	2-5	---	2-5	---
bottlebrush squirreltail	SIHY	---	---	---	---	---	5-10
galleta	HIJA	2-8	2-5	2-8	2-8	2-8	---
needleandthread	STCO4	2-8	15-25	2-10	---	2-10	---
sand dropseed	SPCR	2-5	2-5	---	---	---	---
globemallow	SPHA2	2-5	2-5	---	2-5	---	---
black sagebrush	ARARN	---	15-30	15-30	---	15-30	---
bud sagebrush	ARSP5	2-10	---	---	5-10	---	---
fourwing saltbush	ATCA2	---	2-8	---	---	---	---
gray molly kochia	KOAMV	---	---	---	2-5	---	---
shadscale	ATCO	20-30	---	2-5	40-50	2-5	85-90
winterfat	EULA5	5-15	2-5	5-10	2-8	5-10	---
Range site number		028AY018NV	028AY013NV	028AY004NV	028AY012NV	028AY004NV	028BY073NV
Potential production (lb/acre):							
Favorable years		700	700	500	500	500	400
Normal years		500	500	325	300	325	300
Unfavorable years		300	300	100	200	100	200

113--GRAVIER-JERICO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		GRAVIER	GRAVIER	JERICO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	35-45	40-50	20-30	15-25	15-25	20-30
King desertgrass	BLKI	---	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	5-10	---
galleta	HIJA	2-8	2-8	2-5	2-8	---	2-5
needleandthread	STCO4	2-8	---	15-25	---	---	15-25
other perennial grasses	PPGG	---	---	---	---	2-5	---
sand dropseed	SPCR	2-5	---	2-5	---	---	2-5
globemallow	SPHAE	2-5	2-5	2-5	2-5	2-5	2-5
black sagebrush	ARARN	---	---	15-30	---	---	15-30
bud sagebrush	ARSP5	2-10	2-8	---	5-10	2-8	---
fourwing saltbush	ATCA2	---	---	2-8	---	2-5	2-8
gray molly kochia	KOAMV	---	---	---	2-5	---	---
shadscale	ATCO	20-30	1-5	---	40-50	---	---
winterfat	EULA5	5-15	25-30	2-5	2-8	40-50	2-5
Range site number		028AY018NV	028AY002NV	028AY013NV	028AY012NV	028BY013NV	028AY013NV
Potential production (lb/acre):							
Favorable years		700	800	700	500	700	700
Normal years		500	600	500	300	500	500
Unfavorable years		300	400	300	200	350	300

116--GRAVIER-IZAMATCH-LORAY ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		GRAVIER	IZAMATCH	LORAY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	2-8	---	---	---	---	---	---
Indian ricegrass	ORHY	---	35-45	15-25	20-30	10-20	10-20	2-5
King desertgrass	BLKI	---	---	2-5	---	---	---	---
Letterman needlegrass	STLE4	2-5	---	---	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5	2-5	2-5
galleta	HIJA	---	2-8	2-8	2-5	1-5	---	---
mountain brome	BRCAS	5-10	---	---	---	---	---	---
needleandthread	STCO4	---	2-8	---	15-25	---	---	---
sand dropseed	SPCR	---	2-5	---	2-5	---	---	---
slender wheatgrass	AGTR	5-10	---	---	---	---	---	---
western wheatgrass	AGSM	---	---	---	---	---	5-15	---
globemallow	SPHAE	---	2-5	2-5	2-5	2-5	---	---
black greasewood	SAVE4	---	---	---	---	---	---	20-30
black sagebrush	ARARN	---	---	---	15-30	---	---	---
bud sagebrush	ARSP5	---	2-10	5-10	---	---	---	2-10
fourwing saltbush	ATCA2	---	---	---	2-8	10-20	---	---
gray molly kochia	KOAMV	---	---	2-5	---	---	2-5	---
quaking aspen	POTRT	50-60	---	---	---	---	---	---
shadscale	ATCO	---	20-30	40-50	---	2-5	---	20-50
sickle saltbush	ATFA	---	---	---	---	---	45-55	---
spiny hopsage	GRSP	---	---	---	---	30-40	---	---
willow	SALIX	1-8	---	---	---	---	---	---
winterfat	EULAS	---	5-15	2-8	2-5	2-5	2-8	---
Range site number		025XY002NV	028AY018NV	028AY012NV	028AY013NV	028AY006NV	028AY033NV	028BY074NV
Potential production (lb/acre):								
Favorable years		1800	700	500	700	600	700	600
Normal years		1300	500	300	500	400	500	400
Unfavorable years		900	300	200	300	250	350	200

118--GRAVIER-AUTOMAL-ZERK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		GRAVIER	AUTOMAL	ZERK	Inclusion 1	Inclusion 2
Indian ricegrass	ORBY	40-50	20-35	40-50	15-25	---
Sandberg bluegrass	POSE	---	2-8	---	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	2-5	5-10
needleandthread	STCO4	---	5-15	---	5-10	---
western wheatgrass	AGSM	---	---	---	---	2-5
scarlet globemallow	SPCO	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	---	---	---	20-35	---
black greasewood	SAVE4	---	---	---	---	15-25
black sagebrush	ARARN	---	25-35	---	---	---
bud sagebrush	ARSP5	5-15	---	5-15	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---
shadscale	ATCO	---	2-5	---	2-5	2-5
sickle saltbush	ATFA	---	---	---	---	50-60
spiny hopsage	GRSP	---	---	---	5-20	---
winterfat	EULAS	20-30	---	20-30	---	---
Range site number		028BY084NV	028BY011NV	028BY084NV	028BY052NV	028BY097NV
Potential production (lb/acre):						
Favorable years		900	600	900	800	500
Normal years		700	450	700	600	350
Unfavorable years		400	250	400	450	200

119--WINTERMUTE-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		WINTERMUTE	LINOYER	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	15-25	10-20	40-50	20-30
Sandberg bluegrass	POSE	---	---	---	---	2-5
bottlebrush squirreltail	SIHY	2-5	5-10	5-15	2-5	2-8
needleandthread	STCO4	---	---	---	---	10-20
other perennial grasses	PPGG	---	2-5	---	---	---
globemallow	SPHAE	1-5	2-5	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35
bud sagebrush	ARSP5	---	2-8	10-25	5-15	---
fourwing saltbush	ATCA2	---	2-5	---	---	---
rabbitbrush	CHRY9	---	---	---	---	2-5
shadscale	ATCO	25-35	---	40-50	---	---
winterfat	EULAS	5-10	40-50	---	20-30	---
Range site number		028BY075NV	028BY013NV	028BY017NV	028BY084NV	028BY010NV
Potential production (lb/acre):						
Favorable years		700	700	400	900	800
Normal years		500	500	300	700	600
Unfavorable years		300	350	200	400	400

120--IZAMATCH-ARMESPAN-CLIFFDOWN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		IZAMATCH	ARMESPAN	CLIFFDOWN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	35-45	10-25	35-45	15-25	5-10	10-25	25-35
King desertgrass	BLKI	---	---	---	2-5	---	---	---
Sandberg bluegrass	POSE	---	2-5	---	---	---	2-5	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5	---	2-5
galleta	HIJA	2-8	2-8	2-8	2-8	1-4	2-8	2-5
needleandthread	STCO4	2-8	2-10	2-8	---	---	2-10	---
sand dropseed	SPCR	2-5	---	2-5	---	---	---	2-5
globemallow	SPHAE	2-5	---	2-5	2-5	2-5	---	2-5
princesplume	STANL	---	---	---	---	---	---	2-5
Nevada ephedra	EPNE	---	---	---	---	2-15	---	2-5
black sagebrush	ARARN	---	15-30	---	---	---	15-30	---
bud sagebrush	ARSP5	2-10	---	2-10	5-10	---	---	2-5
fourwing saltbush	ATCA2	---	---	---	---	5-30	---	---
gray molly kochia	KOAMV	---	---	---	2-5	---	---	---
horsebrush	TETRA3	---	---	---	---	---	---	5-10
rabbitbrush	CHRY89	---	---	---	---	5-20	---	---
shadscale	ATCO	20-30	2-5	20-30	40-50	2-5	2-5	15-25
spiny hopsage	GRSP	---	---	---	---	5-20	---	---
winterfat	EULA5	5-15	5-10	5-15	2-8	---	5-10	5-10
Range site number		028AY018NV	028AY004NV	028AY018NV	028AY012NV	028AY037NV	028AY004NV	028AY014NV
Potential production (lb/acre):								
Favorable years		700	500	700	500	600	50	600
Normal years		500	325	500	300	500	325	400
Unfavorable years		300	100	300	200	400	100	200

122--GRAVIER-IZAMATCH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		GRAVIER	IZAMATCH	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	35-45	35-45	25-35	15-25	40-50	5-10
King desertgrass	BLKI	---	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	---	---	2-5	---	---	2-5
galleta	HIJA	2-8	2-8	2-5	2-8	2-8	1-4
needleandthread	STCO4	2-8	2-8	---	---	---	---
sand dropseed	SPCR	2-5	2-5	2-5	---	---	---
globemallow	SPHAE	2-5	2-5	2-5	2-5	2-5	2-5
princesplume	STANL	---	---	2-5	---	---	---
Nevada ephedra	EPNE	---	---	2-5	---	---	2-15
bud sagebrush	ARSP5	2-10	2-10	2-5	5-10	2-8	---
fourwing saltbush	ATCA2	---	---	---	---	---	5-30
gray molly kochia	KOAMV	---	---	---	2-5	---	---
horsebrush	TETRA3	---	---	5-10	---	---	---
rabbitbrush	CHRY89	---	---	---	---	---	5-20
shadscale	ATCO	20-30	20-30	15-25	40-50	1-5	2-5
spiny hopsage	GRSP	---	---	---	---	---	5-20
winterfat	EULA5	5-15	5-15	5-10	2-8	25-30	---
Range site number		028AY018NV	028AY018NV	028AY014NV	028AY012NV	028AY002NV	028AY037NV
Potential production (lb/acre):							
Favorable years		700	700	600	500	800	600
Normal years		500	500	400	300	600	500
Unfavorable years		300	300	200	200	400	400

130--TOOELE-BENIN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		TOOELE	BENIN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	---	2-8	5-10	2-5	10-20
alkali sacaton	SPAI	---	5-10	---	---	---	---
basin wildrye	ELCI2	---	2-5	---	2-5	---	---
bottlebrush squirreltail	SIHY	2-5	---	2-5	---	2-5	5-15
inland saltgrass	DISPS2	---	2-8	---	---	---	---
thickspike wheatgrass	AGDA	---	---	---	2-5	---	---
western wheatgrass	AGSM	---	---	5-15	---	---	---
black greasewood	SAVE4	20-30	60-75	---	40-60	20-30	---
bud sagebrush	ARSP5	2-10	---	---	---	2-10	10-25
fourwing saltbush	ATCA2	---	---	---	5-10	---	---
rubber rabbitbrush	CHNA2	---	2-5	---	---	---	---
shadscale	ATCO	20-50	2-5	2-5	5-10	20-50	40-50
sickle saltbush	ATFA	---	---	55-65	---	---	---
winterfat	EULA5	---	---	5-15	---	---	---
Range site number		028BY074NV	028BY020NV	028BY047NV	028BY021NV	028BY074NV	028BY017NV
Potential production (lb/acre):							
Favorable years		600	500	500	400	600	400
Normal years		400	300	350	300	400	300
Unfavorable years		200	150	200	200	200	200

140--GOLLAHER-BELSAC ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		GOLLAHER	BELSAC	Inclusion 1	Inclusion 2	Inclusion 3
Columbia needlegrass	STNE3	---	2-5	---	---	---
Cusick bluegrass	POCU3	---	---	---	5-15	---
Idaho fescue	FEID	---	2-10	30-50	30-60	---
Indian ricegrass	ORHY	2-8	---	---	---	2-5
Nevada bluegrass	PONE3	---	2-5	---	---	---
Thurber needlegrass	STTH2	10-20	---	---	---	10-20
bluebunch wheatgrass	AGSP	30-40	2-5	15-30	2-10	20-35
bluegrass	POA++	---	---	2-10	---	---
mountain brome	BRCA5	---	5-15	---	---	---
slender wheatgrass	AGTR	---	5-15	---	---	---
spike-fescue	LEKI2	---	2-10	---	---	---
tapertip hawksbeard	CRAC2	---	---	---	2-5	---
Utah serviceberry	AMUT	---	1-5	---	---	---
antelope bitterbrush	PUTR2	---	1-5	2-5	---	---
black sagebrush	ARARN	20-30	---	---	25-35	25-35
common chokecherry	PRVI	---	1-5	---	---	---
low sagebrush	ARAR8	---	---	15-25	---	---
mountain big sagebrush	ARVA2	---	5-15	---	---	---
snowberry	SYMPH	---	2-15	---	---	---
Range site number		025XY057NV	025XY004NV	025XY017NV	024XY042NV	024XY031NV
Potential production (lb/acre):						
Favorable years		700	2800	900	1000	700
Normal years		500	1800	700	800	500
Unfavorable years		300	1200	400	500	300

151--HOPEKA-AMENE-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HOPEKA	AMENE	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	---	5-15	---	2-5	40-60	30-40	---
Indian ricegrass	ORRY	X	---	---	---	---	---	2-8
Nevada bluegrass	PONE3	---	---	---	2-5	2-8	2-5	---
Thurber needlegrass	STH2	X	---	---	2-8	---	---	10-20
basin wildrye	ELCI2	X	2-8	---	5-10	2-8	2-10	---
bluebunch wheatgrass	AGSP	X	15-25	---	50-60	5-15	15-30	30-40
bluegrass	POA++	X	---	---	---	---	---	---
bottlebrush squirreltail	SIHY	X	---	---	---	---	---	---
mountain brome	BRCA5	---	5-10	---	---	---	---	---
arrowleaf balsamroot	BASA3	X	---	---	---	---	2-5	---
tapertip hawkbeard	CRAC2	X	---	---	---	---	2-5	---
Stansbury cliffrose	COMES	X	---	---	---	---	---	---
Utah serviceberry	AMUT	---	2-8	---	---	---	---	---
antelope bitterbrush	PUTR2	X	2-10	---	2-10	---	5-10	---
basin big sagebrush	ARTRT	---	---	---	---	10-20	---	---
black sagebrush	ARARN	X	---	---	---	---	---	20-30
curleaf mountainmahogany	CELE3	X	---	---	---	---	---	---
mountain big sagebrush	ARVA2	---	10-20	---	5-15	---	10-20	---
serviceberry	AMELA	X	---	---	---	---	---	---
Utah juniper	JUOS	X	---	---	---	---	---	---
singleleaf pinyon	FIMO	X	---	---	---	---	---	---
Range site number		028BY060NV	025XY042NV	None	025XY009NV	025XY027NV	025XY012NV	025XY057NV
Potential production (lb/acre):								
Favorable years		500	700		1300	1300	1400	700
Normal years		300	500		900	900	1000	500
Unfavorable years		250	300		700	500	700	300

154--HOPEKA-TECOMar ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		HOPEKA	TECOMar	Inclusion 1	Inclusion 2	Inclusion 3
Canby bluegrass	POCA	---	---	---	---	X
Indian ricegrass	ORHY	X	10-20	---	2-8	---
Sandberg bluegrass	POSE	---	---	---	---	X
Thurber needlegrass	STH2	X	---	---	10-20	---
basin wildrye	ELCI2	X	---	---	---	X
bluebunch wheatgrass	AGSP	X	20-40	---	30-40	X
bluegrass	POA+	X	---	---	---	---
bottlebrush squirreltail	SIHY	X	---	---	---	X
muttongrass	POPE	---	2-8	---	---	X
needleandthread	STCO4	---	2-5	---	---	---
arrowleaf balsamroot	BASA3	X	---	---	---	X
tapertip hawksbeard	CRAC2	X	---	---	---	X
Stansbury cliffrose	COMES	X	---	---	---	---
antelope bitterbrush	PUTR2	X	---	---	---	X
black sagebrush	ARARN	X	20-30	---	20-30	---
curlleaf mountainmahogany	CELE3	X	---	---	---	X
mountain big sagebrush	ARVA2	---	---	---	---	X
serviceberry	AMELA	X	---	---	---	X
snowberry	SYMPH	---	---	---	---	X
winterfat	EULA5	---	2-5	---	---	---
Utah juniper	JUOS	X	---	---	---	X
singleleaf pinyon	PIMO	X	---	---	---	X
Range site number		028BY060NV	028BY006NV	None	025XY057NV	028BY058NV
Potential production (lb/acre):						
Favorable years		500	800		700	500
Normal years		300	600		500	300
Unfavorable years		250	400		300	200

160--SALTAIR-KAWICH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SALTAIR	KAWICH	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	---	5-10	10-20	2-5	---	---
alkali sacaton	SPAI	---	---	---	---	---	5-10
basin wildrye	ELCI2	---	2-5	---	---	---	2-5
bottlebrush squirreltail	SIHY	---	---	2-5	5-10	---	---
inland saltgrass	DISPS2	20-30	---	---	---	---	2-8
thickspike wheatgrass	AGDA	---	2-5	---	---	---	---
western wheatgrass	AGSM	---	---	5-15	---	---	---
black greasewood	SAVE4	---	40-60	---	2-8	---	60-75
fourwing saltbush	ATCA2	---	5-10	---	---	---	---
gray molly kochia	KOAMV	---	---	2-5	15-25	---	---
iodinebush	ALOC2	50-60	---	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5
shadscale	ATCO	---	5-10	---	5-10	---	2-5
sickle saltbush	ATFA	---	---	45-55	50-60	---	---
winterfat	EULA5	---	---	2-8	---	---	---
Range site number		028AY009NV	028BY021NV	028AY033NV	028AY020NV	None	028BY020NV
Potential production (lb/acre):							
Favorable years		150	400	700	500		500
Normal years		100	300	500	350		300
Unfavorable years		75	200	350	200		150

161--SALTAIR-PLAYAS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		SALTAIR	PLAYAS	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	---	---	2-5	---	---
bulrush	SCIRP	---	---	---	---	30-50
cattail	TYPHA	---	---	---	---	20-40
giantreed	ARDO4	---	---	---	---	5-10
inland saltgrass	DISPS2	20-30	---	---	75-95	---
rush	JunCU	---	---	---	---	2-8
sedge	CAREX	---	---	---	---	2-8
black greasewood	SAVE4	---	---	20-30	---	---
bud sagebrush	ARSP5	---	---	2-10	---	---
iodinebush	ALOC2	50-60	---	---	---	---
shadscale	ATCO	---	---	20-50	---	---
Range site number		028AY009NV	None	028BY074NV	028AY046NV	028BY044NV
Potential production (lb/acre):						
Favorable years		150		600	3500	4000
Normal years		100		400	2500	2800
Unfavorable years		75		200	1000	2000

171--LORAY-GRAVIER-TOANO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		LORAY	GRAVIER	TOANO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	---	40-50	15-25	35-45	10-25	25-35	2-5
Letterman needlegrass	STLE4	X	---	---	---	---	---	---
Sandberg bluegrass	POSE	---	---	---	---	2-5	---	---
bluebunch wheatgrass	AGSP	X	---	---	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	5-10	---	---	2-5	2-5
galleta	HIJA	---	2-8	---	2-8	2-8	2-5	---
muttongrass	POFE	X	---	---	---	---	---	---
needleandthread	STCO4	---	---	---	2-8	2-10	---	---
sand dropseed	SPCR	---	---	---	2-5	---	2-5	---
sedge	CAREX	X	---	---	---	---	---	---
spike-fescue	LEKI2	X	---	---	---	---	---	---
creeping barberry	BERE	X	---	---	---	---	---	---
globemallow	SPHA8	---	2-5	2-5	2-5	---	2-5	---
goldenweed	HAPLO2	X	---	---	---	---	---	---
princesplume	STANL	---	---	---	---	---	2-5	---
Nevada ephedra	EPNE	---	---	---	---	---	2-5	---
black greasewood	SAVE4	---	---	---	---	---	---	20-30
black sagebrush	ARARN	---	---	---	---	15-30	---	---
bud sagebrush	ARSP5	---	2-8	---	2-10	---	2-5	2-10
common juniper	JUCO6	X	---	---	---	---	---	---
fourwing saltbush	ATCA2	---	---	2-5	---	---	---	---
horsebrush	TETRA3	---	---	---	---	---	5-10	---
mountain big sagebrush	ARVA2	X	---	---	---	---	---	---
other shrubs	SSSS	---	---	5-15	---	---	---	---
serviceberry	AMELA	X	---	---	---	---	---	---
shadscale	ATCO	---	1-5	---	20-30	2-5	15-25	20-50
winterfat	EULA5	---	25-30	50-60	5-15	5-10	5-10	---
bristlecone pine	PIAR	X	---	---	---	---	---	---
limber pine	PIFL2	X	---	---	---	---	---	---
white fir	ABCO	X	---	---	---	---	---	---

Range site number	028BY063NV	028AY002NV	028AY030NV	028AY018NV	028AY004NV	028AY014NV	028BY074NV
Potential production (lb/acre):							
Favorable years	800	800	700	700	500	600	600
Normal years	500	600	500	500	325	400	400
Unfavorable years	300	400	350	300	100	200	200

173--CLIFFDOWN-ARMESPAN-IZAMATCH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		CLIFFDOWN	ARMESPAN	IZAMATCH	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	35-45	10-25	25-35	10-25	15-25	40-50	5-10
Sandberg bluegrass	POSE	---	2-5	---	2-5	2-5	---	---
bottlebrush squirreltail	SIHY	---	---	2-5	---	---	---	2-5
galleta	HIJA	2-8	2-8	2-5	2-8	1-5	2-8	1-4
needleandthread	STCO4	2-8	2-10	---	2-10	5-10	---	---
sand dropseed	SPCR	2-5	---	2-5	---	---	---	---
globemallow	SPAE	2-5	---	2-5	---	2-5	2-5	2-5
princesplume	STANL	---	---	2-5	---	---	---	---
Nevada ephedra	EPNE	---	---	2-5	---	---	---	2-15
black sagebrush	ARARN	---	15-30	---	15-30	15-25	---	---
bud sagebrush	ARSP5	2-10	---	2-5	---	---	2-8	---
fourwing saltbush	ATCA2	---	---	---	---	---	---	5-30
horsebrush	TETRA3	---	---	5-10	---	---	---	---
rabbitbrush	CHRY99	---	---	---	---	---	---	5-20
shadscale	ATCO	20-30	2-5	15-25	2-5	---	1-5	2-5
spiny hopsage	GRSP	---	---	---	---	20-30	---	5-20
winterfat	EULA5	5-15	5-10	5-10	5-10	---	25-30	---

Range site number	028AY018NV	028AY004NV	028AY014NV	028AY004NV	028AY047NV	028AY002NV	028AY037NV
Potential production (lb/acre):							
Favorable years	700	500	600	500	600	800	600
Normal years	500	325	400	325	400	600	500
Unfavorable years	300	100	200	100	200	400	400

174--WINTERMUTE-LINOYER-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		WINTERMUTE	LINOYER	OKAN	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	40-50	15-25	15-25	20-35	40-50
Sandberg bluegrass	POSE	---	---	---	2-8	---
bottlebrush squirreltail	SIHY	2-5	5-10	2-5	2-5	2-5
needleandthread	STCO4	---	---	5-10	5-15	---
other perennial grasses	PPGG	---	2-5	---	---	---
globemallow	SPHAE	1-5	2-5	---	---	---
scarlet globemallow	SPCO	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	---	---	20-35	---	---
black sagebrush	ARARN	---	---	---	25-35	---
bud sagebrush	ARSP5	---	2-8	---	---	5-15
downy rabbitbrush	CHVIP4	---	---	---	2-5	---
fourwing saltbush	ATCA2	---	2-5	---	---	---
shadscale	ATCO	25-35	---	2-5	2-5	---
spiny hopsage	GRSP	---	---	5-20	---	---
winterfat	EULA5	5-10	40-50	---	---	20-30
Range site number		028BY075NV	028BY013NV	028BY052NV	028BY011NV	028BY084NV
Potential production (lb/acre):						
Favorable years		700	700	800	600	900
Normal years		500	500	600	450	700
Unfavorable years		300	350	450	250	400

175--LORAY-WINTERMUTE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		LORAY	WINTERMUTE	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	15-25	40-50	20-30	20-35	2-10
King desertgrass	BLKI	2-5	---	---	---	---
Sandberg bluegrass	POSE	---	---	2-5	2-8	---
basin wildrye	ELCI2	---	---	---	---	10-20
bottlebrush squirreltail	SIHY	---	2-5	2-8	2-5	---
galleta	HIJA	2-8	---	---	---	---
needleandthread	STCO4	---	---	10-20	5-15	---
globemallow	SPHA2	2-5	1-5	---	---	---
Wyoming big sagebrush	ARTRW	---	---	25-35	---	---
big sagebrush	ARTR2	---	---	---	---	20-30
black greasewood	SAVE4	---	---	---	---	30-40
black sagebrush	ARARN	---	---	---	25-35	---
bud sagebrush	ARSP5	5-10	---	---	---	---
downy rabbitbrush	CHVIP4	---	---	---	2-5	---
gray molly kochia	KOAMV	2-5	---	---	---	---
rabbitbrush	CHRS9	---	---	2-5	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	2-5
shadscale	ATCO	40-50	25-35	---	2-5	---
winterfat	EULA5	2-8	5-10	---	---	---
Range site number		028AY012NV	028BY075NV	028BY010NV	028BY011NV	028BY028NV
Potential production (lb/acre):						
Favorable years		500	700	800	600	800
Normal years		300	500	600	450	600
Unfavorable years		200	300	400	250	400

176--ZERK-LORAY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		LORAY	ZERK	ZERK	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	2-5	---	---	---	---	---	---
Indian ricegrass	ORRY	---	40-50	---	15-25	1-5	2-8	20-30
Sandberg bluegrass	POSE	---	---	---	---	---	---	2-5
alkali bluegrass	POJU	2-10	---	---	---	---	---	---
alkali muhly	MUAS	2-5	---	---	---	---	---	---
alkali sacaton	SPAI	2-10	---	---	---	---	---	---
blue grama	BOGR2	---	---	X	---	---	---	---
bluebunch wheatgrass	AGSP	---	---	X	---	---	---	---
bluegrass	POA++	---	---	X	---	---	---	---
bottlebrush squirreltail	SIHY	---	2-5	X	5-10	5-10	2-5	2-8
inland saltgrass	DISPS2	5-15	---	---	---	---	---	---
muttongrass	POPE	---	---	X	---	---	---	---
needleandthread	STCO4	---	---	---	---	---	---	10-20
other perennial grasses	PPGG	---	---	---	2-5	---	---	---
sedge	CAREX	10-20	---	---	---	---	---	---
western wheatgrass	AGSM	35-50	---	---	---	5-15	---	---
wildrye	ELYMU	5-15	---	---	---	---	---	---
globemallow	SPHAE	---	---	---	2-5	---	---	---
penstemon	PENST	---	---	X	---	---	---	---
phlox	PHLOX	---	---	X	---	---	---	---
Douglas rabbitbrush	CHVI8	---	---	X	---	---	---	---
Utah serviceberry	AMUT	---	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	---	25-35
bud sagebrush	ARSP5	---	5-15	---	2-8	---	---	---
curlleaf mountainmahogany	CELE3	---	---	X	---	---	---	---
fourwing saltbush	ATCA2	---	---	---	2-5	---	---	---
green ephedra	EPVI	---	---	X	---	---	---	---
greenleaf manzanita	ARPA6	---	---	X	---	---	---	---
low sagebrush	ARAR8	---	---	X	---	---	---	---
rabbitbrush	CHRY89	---	---	---	---	---	---	2-5
shadscale	ATCO	---	---	---	---	85-90	2-5	---
sickle saltbush	ATPA	---	---	---	---	---	55-65	---
winterfat	EULA5	---	20-30	---	40-50	---	5-15	---
Utah juniper	JUOS	---	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---	---
white fir	ABCO	---	---	X	---	---	---	---

Range site number	028BY012NV	028BY084NV	028AY075NV	028BY013NV	028BY073NV	028BY047NV	028BY010NV
Potential production (lb/acre):							
Favorable years	2000	900	500	700	400	500	800
Normal years	1500	700	300	500	300	350	600
Unfavorable years	1000	400	150	350	200	200	400

181--PEEKO-DEWAR ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PEEKO	DEWAR	PEEKO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORRY	5-15	---	5-15	---	15-30	---
Sandberg bluegrass	POSE	---	2-5	---	2-5	---	2-5
Thurber needlegrass	STH2	15-30	15-25	15-30	15-25	---	15-25
basin wildrye	ELCI2	---	---	---	---	2-8	---
bluebunch wheatgrass	AGSP	---	25-40	---	25-40	---	25-40
bottlebrush squirreltail	SIHY	---	---	---	---	5-10	---
globemallow	SPHAE	2-5	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	---	15-25	---	15-25	15-30	15-25
antelope bitterbrush	PUTR2	---	---	---	---	2-8	---
black sagebrush	ARARN	25-35	---	25-35	---	10-20	---
spiny hopsage	GRSP	---	---	---	---	2-5	---
Range site number		024XY030NV	025XY019NV	024XY030NV	025XY019NV	025XY025NV	025XY019NV
Potential production (lb/acre):							
Favorable years		500	800	500	800	500	800
Normal years		350	600	350	600	350	600
Unfavorable years		250	400	250	400	200	400

182--PEEKO-GANCE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PEEKO	PEEKO	GANCE	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	5-15	5-15	---	---	5-15	---
Sandberg bluegrass	POSE	---	---	2-5	2-5	---	---
Thurber needlegrass	STH2	15-30	15-30	15-25	15-25	15-30	10-20
basin wildrye	ELCI2	---	---	---	---	---	2-8
bluebunch wheatgrass	AGSP	---	---	25-40	25-40	---	20-35
bluegrass	POA++	---	---	---	---	---	2-10
globemallow	SPHAE	2-5	2-5	---	---	2-5	---
Wyoming big sagebrush	ARTRW	---	---	15-25	15-25	---	---
antelope bitterbrush	PTR2	---	---	---	---	---	2-8
big sagebrush	ARTR2	---	---	---	---	---	10-20
black sagebrush	ARARN	25-35	25-35	---	---	25-35	---
Range site number		024XY030NV	024XY030NV	025XY019NV	025XY019NV	024XY030NV	025XY014NV
Potential production (lb/acre):							
Favorable years		500	500	800	800	500	1000
Normal years		350	350	600	600	350	800
Unfavorable years		250	250	400	400	250	600

183--PEEKO-ENKO-IZAR ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PEEKO	ENKO	IZAR	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	5-15	---	5-15	X	X
Sandberg bluegrass	POSE	---	2-5	---	---	---
Thurber needlegrass	STH2	15-30	15-25	15-30	X	X
basin wildrye	ELCI2	---	---	---	X	---
bluebunch wheatgrass	AGSP	---	25-40	---	X	X
bluegrass	POA++	---	---	---	X	X
bottlebrush squirreltail	SIEY	---	---	---	X	---
arrowleaf balsamroot	BASA3	---	---	---	X	---
globemallow	SPHA2	2-5	---	2-5	---	---
goldenweed	HAPLO2	---	---	---	---	X
phlox	PHLOX	---	---	---	---	X
tapertip hawkbeard	CRAC2	---	---	---	X	---
Stansbury cliffrose	COMES	---	---	---	X	---
Wyoming big sagebrush	ARTRW	---	15-25	---	---	---
antelope bitterbrush	PUPR2	---	---	---	X	---
black sagebrush	ARARN	25-35	---	25-35	X	X
curleaf mountainmahogany	CELE3	---	---	---	X	---
downy rabbitbrush	CHVIP4	---	---	---	---	X
serviceberry	AMELA	---	---	---	X	---
Utah juniper	JUOS	---	---	---	X	X
singleleaf pinyon	PIMO	---	---	---	X	---
Range site number		024XY030NV	025XY019NV	024XY030NV	028BY060NV	025XY060NV
Potential production (lb/acre):						
Favorable years		500	800	500	500	400
Normal years		350	600	350	300	275
Unfavorable years		250	400	250	250	150

185--PEEKO-CHIARA ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable.
Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PEEKO	PEEKO	CHIARA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	5-15	5-15	---	2-5	---	---	X
Sandberg bluegrass	POSE	---	---	2-5	---	2-5	2-5	---
Thurber needlegrass	STH2	15-30	15-30	15-25	10-20	15-25	15-25	X
bluebunch wheatgrass	AGSP	---	---	25-40	20-35	25-40	25-40	X
bluegrass	POA++	---	---	---	---	---	---	X
globemallow	SPHAE	2-5	2-5	---	---	---	---	---
goldenweed	HAPLO2	---	---	---	---	---	---	X
phlox	PHLOX	---	---	---	---	---	---	X
Wyoming big sagebrush	ARTRW	---	---	15-25	---	15-25	15-25	---
black sagebrush	ARARN	25-35	25-35	---	25-35	---	---	X
downy rabbitbrush	CHVIP4	---	---	---	---	---	---	X
Utah juniper	JUOS	---	---	---	---	---	---	X
Range site number		024XY030NV	024XY030NV	025XY019NV	024XY031NV	025XY019NV	025XY019NV	025XY060NV
Potential production (lb/acre):								
Favorable years		500	500	800	700	800	800	400
Normal years		350	350	600	500	600	600	275
Unfavorable years		250	250	400	300	400	400	150

186--PALINOR-PHARO-HUNDRAW ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PALINOR	PHARO	HUNDRAW	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-35	10-20	X	20-30	40-50	40-50
Sandberg bluegrass	POSE	2-8	---	---	2-5	---	---
Thurber needlegrass	STTH2	---	---	X	---	---	---
bluebunch wheatgrass	AGSP	---	20-40	X	---	---	---
bluegrass	POA++	---	---	X	---	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	2-8	2-5	2-5
muttongrass	POFE	---	2-8	---	---	---	---
needleandthread	STCO4	5-15	2-5	---	10-20	---	---
globemallow	SPHA2	---	---	---	---	1-5	---
goldenweed	HAPLO2	---	---	X	---	---	---
phlox	PHLOX	---	---	X	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	---
black sagebrush	ARARN	25-35	20-30	X	---	---	---
bud sagebrush	ARSP5	---	---	---	---	---	5-15
downy rabbitbrush	CHVIP4	2-5	---	X	---	---	---
rabbitbrush	CHRY99	---	---	---	2-5	---	---
shadscale	ATCO	2-5	---	---	---	25-35	---
winterfat	EULA5	---	2-5	---	---	5-10	20-30
Utah juniper	JUOS	---	---	X	---	---	---

Range site number	028BY011NV	028BY006NV	025XY060NV	028BY010NV	028BY075NV	028BY084NV
Potential production (lb/acre):						
Favorable years	600	800	400	800	700	900
Normal years	450	600	275	600	500	700
Unfavorable years	250	400	150	400	300	400

187--PEEKO-IZAR ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PEEKO	IZAR	IZAR	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	X	10-20	20-30	40-50	X	---
Sandberg bluegrass	POSE	2-8	---	2-5	2-5	---	---	---
Thurber needlegrass	STH2	---	---	---	---	---	X	---
basin wildrye	ELCI2	---	X	---	---	---	X	---
bluebunch wheatgrass	AGSP	---	---	---	---	---	X	---
bluegrass	POA++	---	X	---	---	---	X	---
bottlebrush squirreltail	SIHY	2-5	X	2-5	2-8	2-5	X	---
needleandthread	STCO4	5-15	X	10-20	10-20	---	---	---
arrowleaf balsamroot	BASA3	---	---	---	---	---	X	---
globemallow	SPHA2	---	---	---	---	1-5	---	---
tapertip hawksbeard	CRAC2	---	---	---	---	---	X	---
thickstem wildcabbage	CACR11	---	X	---	---	---	---	---
Stansbury cliffrose	COMES	---	---	---	---	---	X	---
Utah juniper	JUOS	---	X	---	---	---	X	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	---	---
antelope bitterbrush	PUTR2	---	X	---	---	---	X	---
black sagebrush	ARARN	25-35	X	35-45	---	---	X	---
curleaf mountainmahogany	CELE3	---	---	---	---	---	X	---
downy rabbitbrush	CHVIP4	2-5	---	---	---	---	---	---
rabbitbrush	CHRY89	---	---	---	2-5	---	---	---
serviceberry	AMELA	---	---	---	---	---	X	---
shadscale	ATCO	2-5	---	2-5	---	25-35	---	---
winterfat	EULA5	---	---	---	---	5-10	---	---
Utah juniper	JUOS	---	X	---	---	---	X	---
singleleaf pinyon	PIMO	---	---	---	---	---	X	---

Range site number	028BY011NV	028BY083NV	028BY016NV	028BY010NV	028BY075NV	028BY060NV	None
Potential production (lb/acre):							
Favorable years	600	300	350	800	700	500	
Normal years	450	200	225	600	500	300	
Unfavorable years	250	125	100	400	300	250	

188--PALINOR-AUTOMAL-IZAR ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PALINOR	AUTOMAL	IZAR	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	10-20	X	10-20	20-30	40-50	X
Sandberg bluegrass	POSE	2-8	2-5	---	---	2-5	---	---
Thurber needlegrass	STTH2	---	---	---	---	---	---	X
basin wildrye	ELCI2	---	---	X	---	---	---	X
bluebunch wheatgrass	AGSP	---	---	---	20-40	---	---	X
bluegrass	POA++	---	---	X	---	---	---	X
bottlebrush squirreltail	SIHY	2-5	2-5	X	---	2-8	2-5	X
muttongrass	POSE	---	---	---	2-8	---	---	---
needleandthread	STCO4	5-15	10-20	X	2-5	10-20	---	---
arrowleaf balsamroot	BASA3	---	---	---	---	---	---	X
globemallow	SPHAE	---	---	---	---	---	1-5	---
tapertip hawksbeard	CRAC2	---	---	---	---	---	---	X
thickstem wildcabbage	CACR11	---	---	X	---	---	---	---
Stansbury cliffrose	COMES	---	---	---	---	---	---	X
Utah juniper	JUOS	---	---	X	---	---	---	X
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---	---
antelope bitterbrush	PUTR2	---	---	X	---	---	---	X
black sagebrush	ARARN	25-35	35-45	X	20-30	---	---	X
curlleaf mountainmahogany	CELE3	---	---	---	---	---	---	X
downy rabbitbrush	CHVIP4	2-5	---	---	---	---	---	---
rabbitbrush	CHYRS9	---	---	---	---	2-5	---	---
serviceberry	AMELA	---	---	---	---	---	---	X
shadscale	ATCO	2-5	2-5	---	---	---	25-35	---
winterfat	EULA5	---	---	---	2-5	---	5-10	---
Utah juniper	JUOS	---	---	X	---	---	---	X
singleleaf pinyon	FIMO	---	---	---	---	---	---	X

Range site number	028BY011NV	028BY016NV	028BY083NV	028BY006NV	028BY010NV	028BY075NV	028BY060NV
Potential production (lb/acre):							
Favorable years	600	350	300	800	800	700	500
Normal years	450	225	200	600	600	500	300
Unfavorable years	250	100	125	400	400	300	250

192--HUTCHLEY-SIMON ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		HUTCHLEY	SIMON	Inclusion 1	Inclusion 2	Inclusion 3
Idaho fescue	FEID	---	40-60	---	---	---
Letterman needlegrass	STLE4	---	---	---	X	---
Nevada bluegrass	PONE3	---	2-8	---	---	---
Thurber needlegrass	STTH2	10-20	---	---	---	---
basin wildrye	ELCI2	---	2-8	---	---	---
bluebunch wheatgrass	AGSP	20-40	5-15	20-30	X	---
bluegrass	POA++	5-10	---	---	---	---
muttongrass	POPE	---	---	2-8	X	---
needlegrass	STIPA	---	---	5-15	---	---
pine needlegrass	STPI2	2-8	---	---	---	---
sedge	CAREX	---	---	---	X	---
spike-fescue	LEKI2	---	---	---	X	---
creeping barberry	BERE	---	---	---	X	---
goldenweed	HAPLO2	2-5	---	---	X	---
basin big sagebrush	ARTRT	---	10-20	---	---	---
common juniper	JUCO6	---	---	---	X	---
mountain big sagebrush	ARVA2	---	---	15-25	X	---
sagebrush	ARTEM	35-45	---	---	---	---
serviceberry	AMELA	---	---	---	X	---
snowberry	SYMPH	---	---	2-8	---	---
bristlecone pine	FIAR	---	---	---	X	---
curlleaf mountainmahogany	CELE3	---	---	15-25	---	---
limber pine	FIFL2	---	---	---	X	---
white fir	ABCO	---	---	---	X	---
Range site number		028BY034NV	025XY027NV	028BY043NV	028BY063NV	None
Potential production (lb/acre):						
Favorable years		350	1300	1700	800	
Normal years		200	900	1300	500	
Unfavorable years		100	500	900	300	

201--TECOMar-HOPEKA-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		TECOMar	HOPEKA	ROCK OUTCROP	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-5	X	---	2-8	10-20
Thurber needlegrass	STTH2	10-20	X	---	10-20	---
basin wildrye	ELCI2	---	X	---	---	---
bluebunch wheatgrass	AGSP	20-35	X	---	30-40	20-40
bluegrass	POA++	---	X	---	---	---
bottlebrush squirreltail	SIHY	---	X	---	---	---
muttongrass	POPE	---	---	---	---	2-8
needleandthread	STCO4	---	---	---	---	2-5
arrowleaf balsamroot	BASA3	---	X	---	---	---
tapertip hawksbeard	CRAC2	---	X	---	---	---
Stansbury cliffrose	COMES	---	X	---	---	---
antelope bitterbrush	PUTR2	---	X	---	---	---
black sagebrush	ARARN	25-35	X	---	20-30	20-30
curlleaf mountainmahogany	CELE3	---	X	---	---	---
serviceberry	AMELA	---	X	---	---	---
winterfat	EULA5	---	---	---	---	2-5
Utah juniper	JUOS	---	X	---	---	---
singleleaf pinyon	PIMO	---	X	---	---	---
Range site number		024XY031NV	028BY060NV	None	025XY057NV	028BY006NV
Potential production (lb/acre):						
Favorable years		700	500		700	800
Normal years		500	300		500	600
Unfavorable years		300	250		300	400

203--TECOMar-POOKALOO-PHARO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		TECOMar	POOKALOO	PHARO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	10-20	X	10-20	10-20	15-30	---
Nevada bluegrass	PONE3	---	---	---	---	---	5-10
Thurber needlegrass	STH2	---	X	---	---	---	---
basin wildrye	ELCI2	---	X	---	---	---	70-80
bluebunch wheatgrass	AGSP	20-40	X	20-40	20-40	30-40	---
bluegrass	POA++	2-5	X	---	---	5-10	---
bottlebrush squirreltail	SIHY	---	X	---	---	---	---
muttongrass	POPE	---	---	2-8	2-8	---	---
needleandthread	STCO4	2-5	---	2-5	2-5	---	---
arrowleaf balsamroot	BASA3	---	X	---	---	---	---
goldenweed	HAPLO2	2-5	---	---	---	---	---
tapertip hawkbeard	CRAC2	2-5	X	---	---	---	---
Stansbury cliffrose	COMES	---	X	---	---	---	---
antelope bitterbrush	PUTR2	---	X	---	---	5-10	---
basin big sagebrush	ARTRT	---	---	---	---	---	5-10
black sagebrush	ARARN	25-35	X	20-30	20-30	---	---
curlleaf mountainmahogany	CELE3	---	X	---	---	---	---
mountain big sagebrush	ARVA2	---	---	---	---	15-25	---
serviceberry	AMELA	---	X	---	---	---	---
shadscale	ATCO	2-5	---	---	---	---	---
winterfat	EULA5	2-5	---	2-5	2-5	---	---
Utah juniper	JUOS	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	X	---	---	---	---
Range site number		028BY008NV	028BY060NV	028BY006NV	028BY006NV	028BY079NV	028BY003NV
Potential production (lb/acre):							
Favorable years		600	500	800	800	700	5000
Normal years		400	300	600	600	500	2500
Unfavorable years		200	250	400	400	300	1500

210--MAZUMA-HARDHAT-LORAY ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		MAZUMA	HARDHAT	LORAY	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	2-5	1-5	15-25	15-25	---	10-15
King desertgrass	BLKI	---	---	2-5	---	---	---
alkali sacaton	SPAI	---	---	---	---	5-10	---
basin wildrye	ELCI2	---	---	---	---	2-5	---
bottlebrush squirreltail	SIHY	2-5	5-10	---	5-10	---	2-5
galleta	HIJA	---	---	2-8	---	---	---
inland saltgrass	DISPS2	---	---	---	---	2-8	---
other perennial grasses	PPGG	---	---	---	2-5	---	---
globemallow	SPHAE	---	---	2-5	2-5	---	---
black greasewood	SAVE4	20-30	---	---	---	60-75	15-25
bud sagebrush	ARSP5	2-10	---	5-10	2-8	---	---
fourwing saltbush	ATCA2	---	---	---	2-5	---	---
gray molly kochia	KOAMV	---	---	2-5	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	2-5	---
shadscale	ATCO	20-50	85-90	40-50	---	2-5	---
spiny hopsage	GRSP	---	---	---	---	---	40-60
winterfat	EULA5	---	---	2-8	40-50	---	---
Range site number		028BY074NV	028BY073NV	028AY012NV	028BY013NV	028BY020NV	028AY032NV
Potential production (lb/acre):							
Favorable years		600	400	500	700	500	1000
Normal years		400	300	300	500	300	800
Unfavorable years		200	200	200	350	150	600

211--VALMY-ENKO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		VALMY	ENKO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	---	---	---	5-15	---
Sandberg bluegrass	POSE	---	2-5	2-5	---	---	2-5
Thurber needlegrass	STTH2	---	15-25	15-25	---	15-30	15-25
basin wildrye	ELCI2	5-20	---	---	15-20	---	---
bluebunch wheatgrass	AGSP	---	25-40	25-40	---	---	25-40
bottlebrush squirreltail	SIHY	2-5	---	---	2-10	---	---
inland saltgrass	DISPS2	---	---	---	2-8	---	---
globemallow	SPHAE	1-2	---	---	---	2-5	---
thelypody	THELY	2-4	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	15-25	15-25	---	---	15-25
big sagebrush	ARTR2	10-25	---	---	---	---	---
black greasewood	SAVE4	20-30	---	---	50-65	---	---
black sagebrush	ARARN	---	---	---	---	25-35	---
spiny hopsage	GRSP	5-15	---	---	---	---	---
Range site number		024XY022NV	025XY019NV	025XY019NV	024XY008NV	024XY030NV	025XY019NV
Potential production (lb/acre):							
Favorable years		800	800	800	700	500	800
Normal years		600	600	600	450	350	600
Unfavorable years		350	400	400	300	250	400

230--ZAFOD-PYRAT-PALINOR ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		ZAFOD	PYRAT	PALINOR	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-5	20-30	20-35	2-5	---
Sandberg bluegrass	POSE	---	2-5	2-8	---	---
Thurber needlegrass	STTH2	30-40	---	---	30-40	---
bluebunch wheatgrass	AGSP	15-30	---	---	15-30	---
bluegrass	POA++	2-8	---	---	2-8	---
bottlebrush squirreltail	SIHY	---	2-8	2-5	---	---
needleandthread	STCO4	2-8	10-20	5-15	2-8	---
arrowleaf balsamroot	BASA3	2-5	---	---	2-5	---
tapertip hawksbeard	CRAC2	2-5	---	---	2-5	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	---
antelope bitterbrush	PTR2	2-10	---	---	2-10	---
big sagebrush	ARTR2	15-25	---	---	15-25	---
black sagebrush	ARARN	---	---	25-35	---	---
downy rabbitbrush	CHVIP4	---	---	2-5	---	---
rabbitbrush	CHRY59	---	2-5	---	---	---
shadscale	ATCO	---	---	2-5	---	---
Range site number		028BY007NV	028BY010NV	028BY011NV	028BY007NV	None
Potential production (lb/acre):						
Favorable years		1000	800	600	1000	
Normal years		800	600	450	800	
Unfavorable years		600	400	250	600	

231--DACKER-NEVADOR-KELK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		DACKER	NEVADOR	KELK	Inclusion 1	Inclusion 2	Inclusion 3
Sandberg bluegrass	POSE	2-5	2-5	2-5	2-5	2-5	2-5
Thurber needlegrass	STTH2	15-25	15-25	15-25	15-25	15-25	15-25
bluebunch wheatgrass	AGSP	25-40	25-40	25-40	25-40	25-40	25-40
Wyoming big sagebrush	ARTRW	15-25	15-25	15-25	15-25	15-25	15-25
Range site number		025XY019NV	025XY019NV	025XY019NV	025XY019NV	025XY019NV	025XY019NV
Potential production (lb/acre):							
Favorable years		800	800	800	800	800	800
Normal years		600	600	600	600	600	600
Unfavorable years		400	400	400	400	400	400

240--HUNDRAW-COBRE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		HUNDRAW	COBRE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	5-15	---	15-30	15-25	5-15	15-25
Sandberg bluegrass	POSE	---	2-5	---	---	---	---
Thurber needlegrass	STTH2	15-30	15-25	---	---	15-30	---
basin wildrye	ELCI2	---	---	2-8	---	---	---
bluebunch wheatgrass	AGSP	---	25-40	---	---	---	---
bottlebrush squirreltail	SINY	---	---	5-10	2-5	---	5-10
needleandthread	STCO4	---	---	---	5-10	---	---
other perennial grasses	PPGG	---	---	---	---	---	2-5
globemallow	SPHAE	2-5	---	---	---	2-5	2-5
scarlet globemallow	SPCO	---	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	---	15-25	15-30	20-35	---	---
antelope bitterbrush	PUTR2	---	---	2-8	---	---	---
black sagebrush	ARARN	25-35	---	10-20	---	25-35	---
bud sagebrush	ARSP5	---	---	---	---	---	2-8
fourwing saltbush	ATCA2	---	---	---	---	---	2-5
shadscale	ATCO	---	---	---	2-5	---	---
spiny hopsage	GRSP	---	---	2-5	5-20	---	---
winterfat	EULAS	---	---	---	---	---	40-50
Range site number		024XY030NV	025XY019NV	025XY025NV	028BY052NV	024XY030NV	028BY013NV
Potential production (lb/acre):							
Favorable years		500	800	500	800	500	700
Normal years		350	600	350	600	350	500
Unfavorable years		250	400	200	450	250	350

241--HUNDRAW-PEEKO-KZIN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HUNDRAW	PEEKO	KZIN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	20-35	X	20-35	5-10	10-20	20-35
Sandberg bluegrass	POSE	2-8	2-8	---	2-8	---	---	2-8
Thurber needlegrass	STTH2	---	---	X	---	---	---	---
basin wildrye	ELCI2	---	---	X	---	10-20	---	---
bluebunch wheatgrass	AGSP	---	---	X	---	---	20-40	---
bluegrass	POA++	---	---	X	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	X	2-5	---	---	2-5
muttongrass	POFE	---	---	---	---	---	2-8	---
needleandthread	STCO4	5-15	5-15	---	5-15	---	2-5	5-15
thickspike wheatgrass	AGDA	---	---	---	---	5-10	---	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	---	---
tapertip hawksbeard	CRAC2	---	---	X	---	---	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---	---
antelope bitterbrush	PUTR2	---	---	X	---	---	---	---
black sagebrush	ARARN	25-35	25-35	X	25-35	---	20-30	25-35
curleaf mountainmahogany	CELE3	---	---	X	---	---	---	---
downy rabbitbrush	CHVIP4	2-5	2-5	---	2-5	---	---	2-5
serviceberry	AMELA	---	---	X	---	---	---	---
shadscale	ATCO	2-5	2-5	---	2-5	---	---	2-5
winterfat	EULA5	---	---	---	---	---	2-5	---
Utah juniper	JUOS	---	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---	---

Range site number	028BY011NV	028BY011NV	028BY060NV	028BY011NV	028BY045NV	028BY006NV	028BY011NV
Potential production (lb/acre):							
Favorable years	600	600	500	600	1000	800	600
Normal years	450	450	300	450	800	600	450
Unfavorable years	250	250	250	250	600	400	250

242--COBRE-HUNDRAW-CHIARA ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		COBRE	HUNDRAW	CHIARA	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	X	20-30	10-20	X	15-25
Sandberg bluegrass	POSE	2-5	---	2-5	---	---	---
basin wildrye	ELCI2	---	X	---	---	X	---
bluebunch wheatgrass	AGSP	---	---	---	20-40	---	---
bluegrass	POA++	---	X	---	---	X	---
bottlebrush squirreltail	SIHY	2-8	X	2-8	---	X	2-5
muttongrass	POPE	---	---	---	2-8	---	---
needleandthread	STCO4	10-20	X	10-20	2-5	X	5-10
scarlet globemallow	SPCO	---	---	---	---	---	2-5
thickstem wildcabbage	CACR11	---	X	---	---	X	---
Utah juniper	JUOS	---	X	---	---	X	---
Wyoming big sagebrush	ARTRW	25-35	---	25-35	---	---	20-35
antelope bitterbrush	PUTR2	---	X	---	---	X	---
black sagebrush	ARARN	---	X	---	20-30	X	---
rabbitbrush	CHRY89	2-5	---	2-5	---	---	---
shadscale	ATCO	---	---	---	---	---	2-5
spiny hopsage	GRSP	---	---	---	---	---	5-20
winterfat	EULAS	---	---	---	2-5	---	---
Range site number		028BY010NV	028BY083NV	028BY010NV	028BY006NV	028BY083NV	028BY052NV
Potential production (lb/acre):							
Favorable years		800	300	800	800	300	800
Normal years		600	200	600	600	200	600
Unfavorable years		400	125	400	400	125	450

244--HUNDRAW-SHABLISS-PALINOR ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable.
Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HUNDRAW	SHABLISS	PALINOR	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	20-30	20-35	X	20-30	20-30	5-10
Sandberg bluegrass	POSE	2-8	2-5	2-8	---	2-5	---	---
basin wildrye	ELCI2	---	---	---	X	---	---	10-20
bluegrass	POA++	---	---	---	X	---	---	---
bottlebrush squirreltail	SIBY	2-5	2-8	2-5	X	2-8	10-20	---
needleandthread	STCO4	5-15	10-20	5-15	X	10-20	---	---
thickspike wheatgrass	AGDA	---	---	---	---	---	---	5-10
globemallow	SPHAE	---	---	---	---	---	2-4	---
thickstem wildcabbage	CACR11	---	---	---	X	---	---	---
Utah juniper	JUOS	---	---	---	X	---	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	25-35	---	25-35
antelope bitterbrush	PTR2	---	---	---	X	---	---	---
black sagebrush	ARARN	25-35	---	25-35	X	---	---	---
downy rabbitbrush	CHVIP4	2-5	---	2-5	---	---	---	---
rabbitbrush	CHRY89	---	2-5	---	---	2-5	---	---
shadscale	ATCO	2-5	---	2-5	---	---	45-50	---
Range site number		028BY011NV	028BY010NV	028BY011NV	028BY083NV	028BY010NV	028BY009NV	028BY045NV
Potential production (lb/acre):								
Favorable years		600	800	600	300	800	500	1000
Normal years		450	600	450	200	600	400	800
Unfavorable years		250	400	250	125	400	300	600

250--IZAR-HOLBORN-KZIN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		IZAR	HOLBORN	KZIN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	10-20	X	20-30	20-35	15-30	20-30
Sandberg bluegrass	POSE	2-8	---	---	2-5	2-8	---	2-5
Thurber needlegrass	STTH2	---	---	X	---	---	---	---
basin wildrye	ELCI2	---	---	X	---	---	2-8	---
bluebunch wheatgrass	AGSP	---	20-40	X	---	---	---	---
bluegrass	POA++	---	---	X	---	---	---	---
bottlebrush squizreltail	SIHY	2-5	---	X	2-8	2-5	5-10	2-8
muttongrass	POPE	---	2-8	---	---	---	---	---
needleandthread	STCO4	5-15	2-5	---	10-20	5-15	---	10-20
arrowleaf balsamroot	BASA3	---	---	X	---	---	---	---
tapertip hawksbeard	CRAC2	---	---	X	---	---	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	15-30	25-35
antelope bitterbrush	PUTR2	---	---	X	---	---	2-8	---
black sagebrush	ARARN	25-35	20-30	X	---	25-35	10-20	---
curlleaf mountainmahogany	CELE3	---	---	X	---	---	---	---
downy rabbitbrush	CHVIP4	2-5	---	---	---	2-5	---	---
rabbitbrush	CHRY89	---	---	---	2-5	---	---	2-5
serviceberry	AMELA	---	---	X	---	---	---	---
shadscale	ATCO	2-5	---	---	---	2-5	---	---
spiny hopsage	GRSP	---	---	---	---	---	2-5	---
winterfat	EULA5	---	2-5	---	---	---	---	---
Utah juniper	JUOS	---	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---	---

Range site number	028BY011NV	028BY006NV	028BY060NV	028BY010NV	028BY011NV	025XY025NV	028BY010NV
Potential production (lb/acre):							
Favorable years	600	800	500	800	600	500	800
Normal years	450	600	300	600	450	350	600
Unfavorable years	250	400	250	400	250	200	400

251--IZAR-PALINOR-SHABLISS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		IZAR	PALINOR	SHABLISS	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	20-35	20-30	5-10	40-50	20-30	---
Sandberg bluegrass	POSE	2-8	2-8	2-5	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-8	2-8	2-5	10-20	---
needleandthread	STCO4	5-15	5-15	10-20	---	---	---	---
globemallow	SPHAE	---	---	---	---	1-5	2-4	---
Wyoming big sagebrush	ARTRW	---	---	25-35	---	---	---	---
black sagebrush	ARARN	25-35	25-35	---	---	---	---	---
downy rabbitbrush	CHVIP4	2-5	2-5	---	---	---	---	---
rabbitbrush	CHRY9	---	---	2-5	---	---	---	---
shadscale	ATCO	2-5	2-5	---	---	25-35	45-50	---
winterfat	EULA5	---	---	---	60-70	5-10	---	---
Range site number		028BY011NV	028BY011NV	028BY010NV	028BY018NV	028BY075NV	028BY009NV	None
Potential production (lb/acre):								
Favorable years		600	600	800	500	700	500	
Normal years		450	450	600	350	500	400	
Unfavorable years		250	250	400	200	300	300	

252--IZAR-HUNDRAW-OKAN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		IZAR	HUNDRAW	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	X	20-30	5-10	20-35	15-25	---
Sandberg bluegrass	POSE	2-8	---	2-5	---	2-8	---	---
basin wildrye	ELCI2	---	X	---	10-20	---	---	---
bluegrass	POA+	---	X	---	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	X	2-8	---	2-5	2-5	---
needleandthread	STCO4	5-15	X	10-20	---	5-15	5-10	---
thickspike wheatgrass	AGDA	---	---	---	5-10	---	---	---
scarlet globemallow	SPOC	---	---	---	---	---	2-5	---
thickstem wildcabbage	CACR11	---	X	---	---	---	---	---
Utah juniper	JUOS	---	X	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	25-35	25-35	---	20-35	---
antelope bitterbrush	PUTR2	---	X	---	---	---	---	---
black sagebrush	ARAR	25-35	X	---	---	25-35	---	---
downy rabbitbrush	CHVIP4	2-5	---	---	---	2-5	---	---
rabbitbrush	CHRY9	---	---	2-5	---	---	---	---
shadscale	ATCO	2-5	---	---	---	2-5	2-5	---
spiny hopsage	GRSP	---	---	---	---	---	5-20	---
Range site number		028BY011NV	028BY083NV	028BY010NV	028BY045NV	028BY011NV	028BY052NV	None
Potential production (lb/acre):								
Favorable years		600	300	800	1000	600	800	
Normal years		450	200	600	800	450	600	
Unfavorable years		250	125	400	600	250	450	

270--CHIARA-KELK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		CHIARA	KELK	KELK	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	---	15-30	---	---
Sandberg bluegrass	POSE	2-5	2-5	---	---	2-5	2-5
Thurber needlegrass	STH2	15-25	15-25	---	---	15-25	15-25
basin wildrye	ELCI2	---	---	55-65	2-8	---	---
bluebunch wheatgrass	AGSP	25-40	25-40	---	---	25-40	25-40
bottlebrush squirreltail	SIHY	---	---	---	5-10	---	---
creeping wildrye	ELTR3	---	---	5-15	---	---	---
western wheatgrass	AGSM	---	---	5-15	---	---	---
Wyoming big sagebrush	ARTRW	15-25	15-25	---	15-30	15-25	15-25
antelope bitterbrush	PUTR2	---	---	---	2-8	---	---
basin big sagebrush	ARTRT	---	---	10-15	---	---	---
black greasewood	SAVE4	---	---	2-8	---	---	---
black sagebrush	ARARN	---	---	---	10-20	---	---
spiny hopsage	GRSP	---	---	---	2-5	---	---
Range site number		025XY019NV	025XY019NV	024XY006NV	025XY025NV	025XY019NV	025XY019NV
Potential production (lb/acre):							
Favorable years		800	800	1500	500	800	800
Normal years		600	600	1100	350	600	600
Unfavorable years		400	400	600	200	400	400

273--CHIARA-DEWAR-ENKO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		CHIARA	DEWAR	ENKO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	---	---	5-15	---
Sandberg bluegrass	POSE	2-5	2-5	2-5	2-5	---	2-5
Thurber needlegrass	STTS2	15-25	15-25	15-25	15-25	15-30	15-25
bluebunch wheatgrass	AGSP	25-40	25-40	25-40	25-40	---	25-40
globemallow	SPHAE	---	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	15-25	15-25	15-25	15-25	---	15-25
black sagebrush	ARARN	---	---	---	---	25-35	---
Range site number		025XY019NV	025XY019NV	025XY019NV	025XY019NV	024XY030NV	025XY019NV
Potential production (lb/acre):							
Favorable years		800	800	800	800	500	800
Normal years		600	600	600	600	350	600
Unfavorable years		400	400	400	400	250	400

276--CHIARA-PEEKO-URMAPOT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		CHIARA	PEEKO	URMAPOT	Inclusion 1
Indian ricegrass	ORHY	---	5-15	10-20	20-30
Sandberg bluegrass	POSE	2-5	---	---	2-5
Thurber needlegrass	STTH2	15-25	15-30	---	---
bluebunch wheatgrass	AGSP	25-40	---	20-40	---
bottlebrush squirreltail	SIHY	---	---	---	2-8
muttongrass	POPE	---	---	2-8	---
needleandthread	STCO4	---	---	2-5	10-20
globemallow	SPHAE	---	2-5	---	---
Wyoming big sagebrush	ARTRW	15-25	---	---	25-35
black sagebrush	ARARN	---	25-35	20-30	---
rabbitbrush	CHRY89	---	---	---	2-5
winterfat	EULAS	---	---	2-5	---
Range site number		025XY019NV	024XY030NV	028BY006NV	028BY010NV
Potential production (lb/acre):					
Favorable years		800	500	800	800
Normal years		600	350	600	600
Unfavorable years		400	250	400	400

279--CHIARA-PARISA-ENKO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		CHIARA	PARISA	ENKO	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-30	20-30	20-30	2-5	20-30
Sandberg bluegrass	POSE	2-5	2-5	2-5	---	2-5
Thurber needlegrass	STH2	---	---	---	30-40	---
bluebunch wheatgrass	AGSP	---	---	---	15-30	---
bluegrass	POA++	---	---	---	2-8	---
bottlebrush squirreltail	SIHY	2-8	2-8	2-8	---	2-8
needleandthread	STCO4	10-20	10-20	10-20	2-8	10-20
arrowleaf balsamroot	BASA3	---	---	---	2-5	---
tapertip hawksbeard	CRAC2	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	25-35	25-35	25-35	---	25-35
antelope bitterbrush	PUTR2	---	---	---	2-10	---
big sagebrush	ARTR2	---	---	---	15-25	---
rabbitbrush	CHRY89	2-5	2-5	2-5	---	2-5
Range site number		028BY010NV	028BY010NV	028BY010NV	028BY007NV	028BY010NV
Potential production (lb/acre):						
Favorable years		800	800	800	1000	800
Normal years		600	600	600	800	600
Unfavorable years		400	400	400	600	400

280--OUPICO-ENKO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		OUPICO	ENKO	Inclusion 1	Inclusion 2
Sandberg bluegrass	POSE	2-5	2-5	2-5	2-5
Thurber needlegrass	STTH2	15-25	15-25	15-25	15-25
bluebunch wheatgrass	AGSP	25-40	25-40	25-40	25-40
Wyoming big sagebrush	ARTRW	15-25	15-25	15-25	15-25
Range site number		025XY019NV	025XY019NV	025XY019NV	025XY019NV
Potential production (lb/acre):					
Favorable years		800	800	800	800
Normal years		600	600	600	600
Unfavorable years		400	400	400	400

282--SHABLISS-PYRAT-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		SHABLISS	PYRAT	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	20-30	20-35	20-30	20-30	5-10
Sandberg bluegrass	POSE	2-5	2-5	2-5	2-8	2-5	2-5	---
basin wildrye	ELCI2	---	---	---	---	---	---	10-20
bottlebrush squirreltail	SIHY	2-8	2-8	2-8	2-5	2-8	2-5	---
needleandthread	STCO4	10-20	10-20	10-20	5-15	10-20	10-20	---
thickspike wheatgrass	AGDA	---	---	---	---	---	---	5-10
Wyoming big sagebrush	ARTRW	25-35	25-35	25-35	---	25-35	25-35	25-35
black sagebrush	ARARN	---	---	---	25-35	---	---	---
downy rabbitbrush	CHVIP4	---	---	---	2-5	---	---	---
rabbitbrush	CHRY99	2-5	2-5	2-5	---	2-5	---	---
shadscale	ATCO	---	---	---	2-5	---	---	---
Range site number		028BY010NV	028BY010NV	028BY010NV	028BY011NV	028BY010NV	028BY080NV	028BY045NV
Potential production (lb/acre):								
Favorable years		800	800	800	600	800	600	1000
Normal years		600	600	600	450	600	400	800
Unfavorable years		400	400	400	250	400	200	600

310--SONOMA-DEVILSGAIT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SONOMA	DEVILSGAIT	SONOMA	Inclusion 1	Inclusion 2	Inclusion 3
Nevada bluegrass	PONE3	---	5-15	---	---	5-15	5-10
alkali bluegrass	POJU	5-15	---	---	---	---	---
alkali cordgrass	SPGR	5-10	---	---	---	---	---
alkali muhly	MUAS	10-20	---	---	---	---	---
alkali sacaton	SPAI	15-40	---	---	5-25	---	---
alpine timothy	PHAL2	---	---	---	---	---	5-10
basin wildrye	ELCI2	2-5	---	55-65	50-60	---	---
creeping wildrye	ELTR3	---	---	5-15	---	---	---
inland saltgrass	DISPS2	5-10	2-5	---	---	2-5	---
mat muhly	MURI	---	2-5	---	---	2-5	---
sedge	CAREX	---	2-10	---	---	2-10	5-10
tufted hairgrass	DecE	---	---	---	---	---	30-60
western wheatgrass	AGSM	---	---	5-15	---	---	---
wildrye	ELYMU	---	60-80	---	---	60-80	---
Sierra clover	TRWO	---	---	---	---	---	2-5
arrowgrass	TRIGL	1-3	---	---	---	---	---
cinquefoil	POTEN	---	---	---	---	---	2-5
basin big sagebrush	ARTRT	---	---	10-15	---	---	---
black greasewood	SAVE4	---	---	2-8	5-15	---	---
rubber rabbitbrush	CHNA2	---	---	---	2-5	---	---
willow	SALIX	---	5-10	---	---	5-10	---
Range site number		024XY009NV	025XY001NV	024XY006NV	024XY007NV	025XY001NV	025XY005NV
Potential production (lb/acre):							
Favorable years		1500	3500	1500	1900	3500	3000
Normal years		1000	2500	1100	1400	2500	1700
Unfavorable years		700	1800	600	800	1800	1000

311--SONOMA-KELK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		SONOMA	KELK	Inclusion 1	Inclusion 2
Nevada bluegrass	PONE3	5-10	---	---	5-10
alkali sacaton	SPAI	---	---	5-25	---
basin wildrye	ELCI2	60-70	55-65	50-60	60-70
creeping wildrye	ELTR3	---	5-15	---	---
mat muhly	MURI	2-8	---	---	2-8
streambank wheatgrass	AGDAR	2-8	---	---	2-8
western wheatgrass	AGSM	---	5-15	---	---
basin big sagebrush	ARTRT	5-10	10-15	---	5-10
black greasewood	SAVE4	---	2-8	5-15	---
rubber rabbitbrush	CHNA2	---	---	2-5	---
Range site number		025XY003NV	024XY006NV	024XY007NV	025XY003NV
Potential production (lb/acre):					
Favorable years		4500	1500	1900	4500
Normal years		3500	1100	1400	3500
Unfavorable years		2000	600	800	2000

330--KZIN-HOLBORN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		KZIN	HOLBORN	KZIN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	X	10-20	X	10-20	---	2-5	2-5
Nevada bluegrass	PONE3	---	---	---	---	5-10	---	---
Thurber needlegrass	STTH2	X	---	X	---	---	10-20	30-40
basin wildrye	ELCI2	X	---	X	---	70-80	---	---
bluebunch wheatgrass	AGSP	X	20-40	X	20-40	---	20-35	15-30
bluegrass	POA++	X	---	X	---	---	---	2-8
bottlebrush squirreltail	SIHY	X	---	X	---	---	---	---
muttongrass	POPE	---	2-8	---	2-8	---	---	---
needleandthread	STCO4	---	2-5	---	2-5	---	---	2-8
arrowleaf balsamroot	BASA3	X	---	X	---	---	---	2-5
tapertip hawksbeard	CRAC2	X	---	X	---	---	---	2-5
Stansbury cliffrose	COMES	X	---	X	---	---	---	---
antelope bitterbrush	PUTR2	X	---	X	---	---	---	2-10
basin big sagebrush	ARTRT	---	---	---	---	5-10	---	---
big sagebrush	ARTR2	---	---	---	---	---	---	15-25
black sagebrush	ARARN	X	20-30	X	20-30	---	25-35	---
curlleaf mountainmahogany	CELE3	X	---	X	---	---	---	---
serviceberry	AMELA	X	---	X	---	---	---	---
winterfat	EULA5	---	2-5	---	2-5	---	---	---
Utah juniper	JUOS	X	---	X	---	---	---	---
singleleaf pinyon	PIMO	X	---	X	---	---	---	---

Range site number	028BY060NV	028BY006NV	028BY060NV	028BY006NV	028BY003NV	024XY031NV	028BY007NV
Potential production (lb/acre):							
Favorable years	500	800	500	800	5000	700	1000
Normal years	300	600	300	600	2500	500	800
Unfavorable years	250	400	250	400	1500	300	600

331--KZIN-COBRE-JACKPOT ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		KZIN	COBRE	JACKPOT	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	X	20-30	15-30	10-20	X	20-35	---
Sandberg bluegrass	POSE	---	2-5	---	---	---	2-8	---
Thurber needlegrass	STH2	X	---	---	---	X	---	---
basin wildrye	ELCI2	X	---	5-10	---	---	---	---
bluebunch wheatgrass	AGSP	X	---	---	---	X	---	---
bluegrass	POA++	X	---	---	---	X	---	---
bottlebrush squirreltail	SIHY	X	2-8	---	2-5	---	2-5	---
needleandthread	STCO4	---	10-20	30-40	---	---	5-15	---
arrowleaf balsamroot	BASA3	X	---	---	---	---	---	---
globemallow	SPHAE	---	---	---	2-5	---	---	---
goldenweed	HAPLO2	---	---	---	---	X	---	---
phlox	PHLOX	---	---	---	---	X	---	---
tapertip hawkbeard	CRAC2	X	---	---	---	---	---	---
Stansbury cliffrose	COMES	X	---	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	---	---	---
antelope bitterbrush	PUTR2	X	---	---	---	---	---	---
big sagebrush	ARTR2	---	---	15-25	---	---	---	---
black sagebrush	ARARN	X	---	---	---	X	25-35	---
curlleaf mountainmahogany	CELE3	X	---	---	---	---	---	---
downy rabbitbrush	CHVIP4	---	---	---	---	X	2-5	---
fourwing saltbush	ATCA2	---	---	---	15-30	---	---	---
rabbitbrush	CHRYS9	---	2-5	---	---	---	---	---
serviceberry	AMELA	X	---	---	---	---	---	---
shadscale	ATCO	---	---	---	---	---	2-5	---
spiny hopsage	GRSP	---	---	1-5	10-20	---	---	---
winterfat	EULA5	---	---	---	2-5	---	---	---
Utah juniper	JUOS	X	---	---	---	X	---	---
singleleaf pinyon	FIMO	X	---	---	---	---	---	---

Range site number	028BY060NV	028BY010NV	024XY017NV	028BY078NV	025XY060NV	028BY011NV	None
Potential production (lb/acre):							
Favorable years	500	800	900	600	400	600	
Normal years	300	600	700	500	275	450	
Unfavorable years	250	400	500	400	150	250	

333--KZIN-HOLBORN-ONKEYO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		KZIN	HOLBORN	ONKEYO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	X	10-20	15-30	10-20	2-5	2-5
Thurber needlegrass	STTH2	X	---	---	---	10-20	30-40
basin wildrye	ELCI2	X	---	---	---	---	---
bluebunch wheatgrass	AGSP	X	20-40	30-40	20-40	20-35	15-30
bluegrass	POA++	X	---	5-10	---	---	2-8
bottlebrush squirreltail	SIHY	X	---	---	---	---	---
muttongrass	POPE	---	2-8	---	2-8	---	---
needleandthread	STCO4	---	2-5	---	2-5	---	2-8
arrowleaf balsamroot	BASA3	X	---	---	---	---	2-5
tapertip hawksbeard	CRAC2	X	---	---	---	---	2-5
Stansbury cliffrose	COMES	X	---	---	---	---	---
antelope bitterbrush	POTR2	X	---	5-10	---	---	2-10
big sagebrush	ARTR2	---	---	---	---	---	15-25
black sagebrush	ARARN	X	20-30	---	20-30	25-35	---
curlleaf mountainmahogany	CELE3	X	---	---	---	---	---
mountain big sagebrush	ARVA2	---	---	15-25	---	---	---
serviceberry	AMELA	X	---	---	---	---	---
winterfat	EULA5	---	2-5	---	2-5	---	---
Utah juniper	JUOS	X	---	---	---	---	---
singleleaf pinyon	PIMO	X	---	---	---	---	---
Range site number		028BY060NV	028BY006NV	028BY079NV	028BY006NV	024XY031NV	028BY007NV
Potential production (lb/acre):							
Favorable years		500	800	700	800	700	1000
Normal years		300	600	500	600	500	800
Unfavorable years		250	400	300	400	300	600

340--SHUTTLE-HARDHAT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		SHUTTLE	HARDHAT	SHUTTLE	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	40-50	1-5	40-50	15-25	10-20
bottlebrush squirreltail	SIHY	2-5	5-10	2-5	5-10	5-15
other perennial grasses	PPGG	---	---	---	2-5	---
globemallow	SPHA8	---	---	---	2-5	---
bud sagebrush	ARSP5	5-15	---	5-15	2-8	10-25
fourwing saltbush	ATCA2	---	---	---	2-5	---
shadscale	ATCO	---	85-90	---	---	40-50
winterfat	EULA5	20-30	---	20-30	40-50	---
Range site number		028BY084NV	028BY073NV	028BY084NV	028BY013NV	028BY017NV
Potential production (lb/acre):						
Favorable years		900	400	900	700	400
Normal years		700	300	700	500	300
Unfavorable years		400	200	400	350	200

350--JERICHO-JERICHO, SILT LOAM ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		JERICHO	JERICHO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	15-25	20-30	40-50	20-30
Sandberg bluegrass	POSE	2-5	---	2-5	---	2-5
bottlebrush squirreltail	SIHY	2-8	2-5	2-8	---	2-8
galleta	HIJA	---	---	---	2-8	---
needleandthread	STCO4	10-20	5-10	10-20	---	10-20
globemallow	SPHA	---	---	---	2-5	---
scarlet globemallow	SPCO	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	25-35	20-35	25-35	---	25-35
bud sagebrush	ARSP5	---	---	---	2-8	---
rabbitbrush	CHRS9	2-5	---	2-5	---	2-5
shadscale	ATCO	---	2-5	---	1-5	---
spiny hopsage	GRSP	---	5-20	---	---	---
winterfat	EULA5	---	---	---	25-30	---
Range site number		028BY010NV	028BY052NV	028BY010NV	028AY002NV	028BY010NV
Potential production (lb/acre):						
Favorable years		800	800	800	800	800
Normal years		600	600	600	600	600
Unfavorable years		400	450	400	400	400

351--SHABLISS-OKAN-EASTWELL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SHABLISS	OKAN	EASTWELL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	15-25	20-35	2-10	10-20	40-50
Sandberg bluegrass	POSE	2-5	---	2-8	---	---	---
basin wildrye	ELCI2	---	---	---	10-20	---	---
bottlebrush squirreltail	SIHY	2-8	2-5	2-5	---	5-15	2-5
needleandthread	STCO4	10-20	5-10	5-15	---	---	---
globemallow	SPhAE	---	---	---	---	---	1-5
scarlet globemallow	SPhCO	---	2-5	---	---	---	---
Wyoming big sagebrush	ARTRW	25-35	20-35	---	---	---	---
big sagebrush	ARTR2	---	---	---	20-30	---	---
black greasewood	SAVE4	---	---	---	30-40	---	---
black sagebrush	ARARN	---	---	25-35	---	---	---
bud sagebrush	ARSP5	---	---	---	---	10-25	---
downy rabbitbrush	CHVIP4	---	---	2-5	---	---	---
rabbitbrush	CHYRS9	2-5	---	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	2-5	---	---
shadscale	ATCO	---	2-5	2-5	---	40-50	25-35
spiny hopsage	GRSP	---	5-20	---	---	---	---
winterfat	EULA5	---	---	---	---	---	5-10
Range site number		028BY010NV	028BY052NV	028BY011NV	028BY028NV	028BY017NV	028BY075NV
Potential production (lb/acre):							
Favorable years		800	800	600	800	400	700
Normal years		600	600	450	600	300	500
Unfavorable years		400	450	250	400	200	300

355--SHABLISS-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SHABLISS	OKAN	OKAN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	15-25	20-30	15-25	20-35	10-20
Sandberg bluegrass	POSE	2-5	---	2-5	---	2-8	---
bottlebrush squirreltail	SIHY	2-8	2-5	2-8	5-10	2-5	5-15
needleandthread	STCO4	10-20	5-10	10-20	---	5-15	---
other perennial grasses	PPGG	---	---	---	2-5	---	---
globemallow	SPHAE	---	---	---	2-5	---	---
scarlet globemallow	SPCO	---	2-5	---	---	---	---
Wyoming big sagebrush	ARTRW	25-35	20-35	25-35	---	---	---
black sagebrush	ARARN	---	---	---	---	25-35	---
bud sagebrush	ARSP5	---	---	---	2-8	---	10-25
downy rabbitbrush	CHVIP4	---	---	---	---	2-5	---
fourwing saltbush	ATCA2	---	---	---	2-5	---	---
rabbitbrush	CHRY99	2-5	---	2-5	---	---	---
shadscale	ATCO	---	2-5	---	---	2-5	40-50
spiny hopsage	GRSP	---	5-20	---	---	---	---
winterfat	EULAS	---	---	---	40-50	---	---
Range site number		028BY010NV	028BY052NV	028BY010NV	028BY013NV	028BY011NV	028BY017NV
Potential production (lb/acre):							
Favorable years		800	800	800	700	600	400
Normal years		600	600	600	500	450	300
Unfavorable years		400	450	400	350	250	200

370--TOANO-TULASE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		TOANO	TULASE	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORRY	2-8	---	---	15-25	1-5
Sandberg bluegrass	POSE	---	2-5	2-5	---	---
Thurber needlegrass	SPTH2	---	15-25	15-25	---	---
bluebunch wheatgrass	AGSP	---	25-40	25-40	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	5-10	5-10
other perennial grasses	PFGG	---	---	---	2-5	---
western wheatgrass	AGSM	5-15	---	---	---	---
globemallow	SPHAE	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	---	15-25	15-25	---	---
bud sagebrush	ARSP5	---	---	---	2-8	---
fourwing saltbush	ATCA2	---	---	---	2-5	---
shadscale	ATCO	2-5	---	---	---	85-90
sickle saltbush	ATFA	55-65	---	---	---	---
winterfat	EULA5	5-15	---	---	40-50	---
Range site number		028BY047NV	025XY019NV	025XY019NV	028BY013NV	028BY073NV
Potential production (lb/acre):						
Favorable years		500	800	800	700	400
Normal years		350	600	600	500	300
Unfavorable years		200	400	400	350	200

371--LINOYER-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		LINOYER	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	15-25	20-30	40-50	20-30	20-35	15-25
Sandberg bluegrass	POSE	---	2-5	---	2-5	2-8	---
bottlebrush squirreltail	SIHY	5-10	2-8	2-5	2-8	2-5	2-5
needleandthread	STCO4	---	10-20	---	10-20	5-15	5-10
other perennial grasses	PPGG	2-5	---	---	---	---	---
globemallow	SPHAZ	2-5	---	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	---	25-35	---	25-35	---	20-35
black sagebrush	ARARN	---	---	---	---	25-35	---
bud sagebrush	ARSP5	2-8	---	5-15	---	---	---
downy rabbitbrush	CHVIP4	---	---	---	---	2-5	---
fourwing saltbush	ATCA2	2-5	---	---	---	---	---
rabbitbrush	CHRY99	---	2-5	---	2-5	---	---
shadscale	ATCO	---	---	---	---	2-5	2-5
spiny hopsage	GRSP	---	---	---	---	---	5-20
winterfat	EULAS	40-50	---	20-30	---	---	---
Range site number		028BY013NV	028BY010NV	028BY084NV	028BY010NV	028BY011NV	028BY052NV
Potential production (lb/acre):							
Favorable years		700	800	900	800	600	800
Normal years		500	600	700	600	450	600
Unfavorable years		350	400	400	400	250	450

373--TIMPIE-PILTDOWN-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		TIMPIE	PILTDOWN	LINOYER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	40-50	50-70	15-25	---	20-30	1-5	2-10
Sandberg bluegrass	POSE	---	---	---	---	2-5	---	2-5
bottlebrush squirreltail	SIHY	2-5	---	5-10	5-10	2-8	5-10	2-5
galleta	HIJA	---	2-5	---	---	---	---	---
needleandthread	STCO4	---	2-5	---	---	10-20	---	2-10
other perennial grasses	PPGG	---	---	2-5	---	---	---	---
sand dropseed	SPCR	---	5-15	---	---	---	---	---
western wheatgrass	AGSM	---	---	---	2-5	---	---	---
globemallow	SPHAE	1-5	---	2-5	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---	---
black greasewood	SAVE4	---	---	---	15-25	---	---	---
bud sagebrush	ARSP5	---	---	2-8	---	---	---	---
fourwing saltbush	ATCA2	---	15-25	2-5	---	---	---	---
pigmy sagebrush	ARPY2	---	---	---	---	---	---	50-70
rabbitbrush	CHRS9	---	---	---	---	2-5	---	---
shadscale	ATCO	25-35	---	---	2-5	---	85-90	---
sickle saltbush	ATFA	---	---	---	50-60	---	---	---
winterfat	EULA5	5-10	2-8	40-50	---	---	---	---
Range site number		028BY075NV	029XY012NV	028BY013NV	028BY097NV	028BY010NV	028BY073NV	028BY040NV
Potential production (lb/acre):								
Favorable years		700	700	700	500	800	400	250
Normal years		500	500	500	350	600	300	175
Unfavorable years		300	300	350	200	400	200	100

374--HEIST-OKAN-ZERK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		HEIST	OKAN	ZERK	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	20-30	40-50	40-50	20-30	1-5
Sandberg bluegrass	POSE	---	2-5	---	---	2-5	---
bottlebrush squirreltail	SIHY	2-5	2-8	2-5	2-5	2-8	5-10
needleandthread	STCO4	---	10-20	---	---	10-20	---
globemallow	SPHA2	---	---	1-5	1-5	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	25-35	---
bud sagebrush	ARSP5	5-15	---	---	---	---	---
rabbitbrush	CHRY89	---	2-5	---	---	2-5	---
shadscale	ATCO	---	---	25-35	25-35	---	85-90
winterfat	EULA5	20-30	---	5-10	5-10	---	---
Range site number		028BY084NV	028BY010NV	028BY075NV	028BY075NV	028BY010NV	028BY073NV
Potential production (lb/acre):							
Favorable years		900	800	700	700	800	400
Normal years		700	600	500	500	600	300
Unfavorable years		400	400	300	300	400	200

375--TOANO-HEIST ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		TOANO	HEIST	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-8	40-50	15-25	1-5	20-30	2-10
Sandberg bluegrass	POSE	---	---	---	---	2-5	---
basin wildrye	ELCI2	---	---	---	---	---	10-20
bottlebrush squirreltail	SIHY	2-5	2-5	5-10	5-10	2-8	---
needleandthread	STCO4	---	---	---	---	10-20	---
other perennial grasses	PPGG	---	---	2-5	---	---	---
western wheatgrass	AGSM	5-15	---	---	---	---	---
globemallow	SPHAE	---	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---
big sagebrush	ARTR2	---	---	---	---	---	20-30
black greasewood	SAVE4	---	---	---	---	---	30-40
bud sagebrush	ARSP5	---	5-15	2-8	---	---	---
fourwing saltbush	ATCA2	---	---	2-5	---	---	---
rabbithrush	CHRY89	---	---	---	---	2-5	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5
shadscale	ATCO	2-5	---	---	85-90	---	---
sickle saltbush	ATPA	55-65	---	---	---	---	---
winterfat	EULA5	5-15	20-30	40-50	---	---	---
Range site number		028BY047NV	028BY084NV	028BY013NV	028BY073NV	028BY010NV	028BY028NV
Potential production (lb/acre):							
Favorable years		500	900	700	400	800	800
Normal years		350	700	500	300	600	600
Unfavorable years		200	400	350	200	400	400

380--COBRE-IZAR-JACKPOT ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		COBRE	IZAR	JACKPOT	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	5-15	15-30	20-30	X	15-30
Sandberg bluegrass	POSE	2-5	---	---	2-5	---	---
Thurber needlegrass	STTH2	---	15-30	---	---	X	---
basin wildrye	ELCT2	---	---	5-10	---	---	2-8
bluebunch wheatgrass	AGSP	---	---	---	---	X	---
bluegrass	POA++	---	---	---	2-8	X	---
bottlebrush squirreltail	SIHY	2-8	---	---	2-8	---	5-10
needleandthread	STCO4	10-20	---	30-40	10-20	---	---
globemallow	SPAE	---	2-5	---	---	---	---
goldenweed	HAPLO2	---	---	---	---	X	---
phlox	PELOX	---	---	---	---	X	---
Wyoming big sagebrush	ARTRW	25-35	---	---	25-35	---	15-30
antelope bitterbrush	PUTR2	---	---	---	---	---	2-8
big sagebrush	ARTR2	---	---	15-25	---	---	---
black sagebrush	ARARN	---	25-35	---	---	X	10-20
downy rabbitbrush	CHVTP4	---	---	---	---	X	---
rabbitbrush	CHRYSP	2-5	---	---	2-5	---	---
spiny hopsage	GRSP	---	---	1-5	---	---	2-5
Utah juniper	JUOS	---	---	---	---	X	---
Range site number		028BY010NV	024XY030NV	024XY017NV	028BY010NV	025XY060NV	025XY025NV
Potential production (lb/acre):							
Favorable years		800	500	900	800	400	500
Normal years		600	350	700	600	275	350
Unfavorable years		400	250	500	400	150	200

381--COBRE-HUNDRAW-JACKPOT ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable.
Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		COBRE	HUNDRAW	JACKPOT	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	X	10-20	20-35	15-30	2-5
Sandberg bluegrass	POSE	2-5	---	2-5	2-8	---	---
Thurber needlegrass	STTH2	---	X	---	---	---	10-20
basin wildrye	ELCI2	---	---	---	---	2-8	---
bluebunch wheatgrass	AGSP	---	X	---	---	---	20-35
bluegrass	POA++	---	X	---	---	---	---
bottlebrush squirreltail	SIHY	2-8	---	10-20	2-5	5-10	---
needleandthread	STCO4	10-20	---	---	5-15	---	---
desert globemallow	SPAM2	---	---	1-2	---	---	---
goldenweed	HAPLO2	---	X	---	---	---	---
phlox	PHLOX	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	25-35	---	---	---	15-30	---
antelope bitterbrush	PUTR2	---	---	---	---	2-8	---
black sagebrush	ARARN	---	X	---	25-35	10-20	25-35
downy rabbitbrush	CHVIP4	---	X	---	2-5	---	---
rabbitbrush	CHRY9	2-5	---	---	---	---	---
shadscale	ATCO	---	---	45-55	2-5	---	---
spiny hopsage	GRSP	---	---	---	---	2-5	---
Utah juniper	JUOS	---	X	---	---	---	---
Range site number		028BY010NV	025XY060NV	024XY060NV	028BY011NV	025XY025NV	024XY031NV
Potential production (lb/acre):							
Favorable years		800	400	700	600	500	700
Normal years		600	275	500	450	350	500
Unfavorable years		400	150	300	250	200	300

382--COBRE-ENKO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		COBRE	ENKO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	---	---	---	X	20-35	X
Sandberg bluegrass	POSE	2-5	2-5	2-5	---	2-8	---
Thurber needlegrass	STH2	15-25	15-25	15-25	X	---	X
basin wildrye	ELCI2	---	---	---	---	---	X
bluebunch wheatgrass	AGSP	25-40	25-40	25-40	X	---	X
bluegrass	POA++	---	---	---	X	---	X
bottlebrush squirreltail	SIHY	---	---	---	---	2-5	X
needleandthread	STCO4	---	---	---	---	5-15	---
arrowleaf balsamroot	BASA3	---	---	---	---	---	X
goldenweed	HAPLO2	---	---	---	X	---	---
phlox	PHLOX	---	---	---	X	---	---
tapertip hawksbeard	CRAC2	---	---	---	---	---	X
Stansbury cliffrose	COMES	---	---	---	---	---	X
Wyoming big sagebrush	ARTRW	15-25	15-25	15-25	---	---	---
antelope bitterbrush	PUTR2	---	---	---	---	---	X
black sagebrush	ARARN	---	---	---	X	25-35	X
curlleaf mountainmahogany	CELE3	---	---	---	---	---	X
downy rabbitbrush	CHVIP4	---	---	---	X	2-5	---
serviceberry	AMELA	---	---	---	---	---	X
shadscale	ATCO	---	---	---	---	2-5	---
Utah juniper	JUOS	---	---	---	X	---	X
singleleaf pinyon	PIMO	---	---	---	---	---	X
Range site number		025XY019NV	025XY019NV	025XY019NV	025XY060NV	028BY011NV	028BY060NV
Potential production (lb/acre):							
Favorable years		800	800	800	400	600	500
Normal years		600	600	600	275	450	300
Unfavorable years		400	400	400	150	250	250

390--HARDOL-MUIRAL-RUBBLE LAND ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		HARDOL	MUIRAL	RUBBLE LAND	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-5	---	---	---	---
Letterman needlegrass	STLE4	---	X	---	---	---
Thurber needlegrass	STHE2	5-10	---	---	---	---
bluebunch wheatgrass	AGSP	5-10	X	---	---	60-80
bluegrass	POA++	2-8	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	---	---
muttongrass	POPE	---	X	---	---	2-10
sedge	CAREX	---	X	---	---	---
spike-fescue	LEKI2	---	X	---	---	---
creeping barberry	BERE	---	X	---	---	---
goldenweed	HAPLO2	---	X	---	---	---
black sagebrush	ARARN	---	---	---	---	2-5
common juniper	JUCO6	---	X	---	---	25-35
mountain big sagebrush	ARVA2	2-5	X	---	---	---
serviceberry	AMELA	---	X	---	---	---
bristlecone pine	PIAR	---	X	---	---	---
curleaf mountainmahogany	CELE3	50-70	---	---	---	---
limber pine	PIPL2	---	X	---	---	---
white fir	ABCO	---	X	---	---	---
Range site number		028BY042NV	028BY063NV	None	None	028BY027NV
Potential production (lb/acre):						
Favorable years		3000	800			600
Normal years		2400	500			450
Unfavorable years		1700	300			300

392--HARDOL-MUIRAL-ONKEYO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		HARDOL	MUIRAL	ONKEYO	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-5	---	15-30	---	---
Letterman needlegrass	STLE4	---	X	---	---	---
Thurber needlegrass	STTH2	5-10	---	---	---	---
bluebunch wheatgrass	AGSP	5-10	X	30-40	---	60-80
bluegrass	POA++	2-8	---	5-10	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	---	---
muttongrass	POPE	---	X	---	---	2-10
sedge	CAREX	---	X	---	---	---
spike-fescue	LEKI2	---	X	---	---	---
creeping barberry	BERE	---	X	---	---	---
goldenweed	HAPLO2	---	X	---	---	2-5
antelope bitterbrush	PUTR2	---	---	5-10	---	---
black sagebrush	ARARN	---	---	---	---	25-35
common juniper	JUCO6	---	X	---	---	---
mountain big sagebrush	ARVA2	2-5	X	15-25	---	---
serviceberry	AMELA	---	X	---	---	---
bristlecone pine	PIAR	---	X	---	---	---
curleaf mountainmahogany	CELE3	50-70	---	---	---	---
limber pine	PIPL2	---	X	---	---	---
white fir	ABCO	---	X	---	---	---
Range site number		028BY042NV	028BY063NV	028BY079NV	None	028BY027NV
Potential production (lb/acre):						
Favorable years		3000	800	700		600
Normal years		2400	500	500		450
Unfavorable years		1700	300	300		300

400--CLEAVAGE-SUMINE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		CLEAVAGE	CLEAVAGE	SUMINE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	---	---	---	---	2-5
Idaho fescue	FEID	30-50	5-30	2-5	30-40	---	5-15	2-10
Indian ricegrass	ORFY	---	---	---	---	2-8	---	---
Nevada bluegrass	PONE3	---	---	2-5	2-5	---	---	2-5
Thurber needlegrass	STHE2	---	---	2-8	---	10-20	---	---
basin wildrye	ELCY2	---	---	5-10	2-10	---	---	---
bluebunch wheatgrass	AGSP	15-30	---	50-60	15-30	30-40	2-10	2-5
bluegrass	POA++	2-10	5-15	---	---	---	---	---
mountain brome	BRCA5	---	---	---	---	---	---	5-15
slender wheatgrass	AGTR	---	---	---	---	---	---	5-15
spike-fescue	LEKI2	---	---	---	---	---	---	2-10
arrowleaf balsamroot	BASA3	---	---	---	2-5	---	---	---
goldenweed	HAFLO2	---	2-5	---	---	---	---	---
tapertip hawksbeard	CRAC2	---	---	---	2-5	---	---	---
Utah serviceberry	AMUT	---	---	---	---	---	---	1-5
antelope bitterbrush	PUTR2	2-5	---	2-10	5-10	---	2-8	1-5
black sagebrush	ARARN	---	---	---	---	20-30	---	---
common chokecherry	FRVI	---	---	---	---	---	---	1-5
low sagebrush	ARAR8	15-25	---	---	---	---	---	---
mountain big sagebrush	ARVA2	---	---	5-15	10-20	---	2-5	5-15
sagebrush	ARTEM	---	30-35	---	---	---	---	---
serviceberry	AMELA	---	---	---	---	---	40-50	---
snowberry	SYMPH	---	---	---	---	---	2-8	2-15
Range site number		025XY017NV	025XY024NV	025XY009NV	025XY012NV	025XY057NV	025XY046NV	025XY004NV
Potential production (lb/acre):								
Favorable years		900	400	1300	1400	700	1800	2800
Normal years		700	275	900	1000	500	1300	1800
Unfavorable years		400	150	700	700	300	900	1200

410--JERICO VERY GRAVELLY LOAM, 2 TO 8 PERCENT SLOPES

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		JERICO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	15-25	15-25	X	40-50
Sandberg bluegrass	POSE	---	2-5	---	X	---
bluebunch wheatgrass	AGSP	---	2-8	---	---	---
bottlebrush squirreltail	SIHY	---	2-5	2-5	X	---
galleta	HIJA	---	2-8	2-5	X	2-8
needleandthread	STCO4	15-25	---	5-10	X	---
sand dropseed	SPCR	2-5	---	---	---	---
threesawn	ARIS	---	---	---	X	---
erigonum	ERIOG	---	---	---	X	---
globemallow	SPHAE	2-5	---	---	---	2-5
goldenweed	HAPLO2	---	---	---	X	---
lupine	LUPIN	---	---	---	X	---
milkvetch	ASTRA	---	---	---	X	---
scarlet globemallow	SPCO	---	---	2-5	---	---
Douglas rabbitbrush	CHVI8	---	---	---	X	---
Utah juniper	JUOS	---	5-15	---	X	---
Wyoming big sagebrush	ARTRW	---	---	25-35	---	---
black sagebrush	ARARN	15-30	40-50	---	---	---
bud sagebrush	ARSP5	---	---	2-5	---	2-8
fourwing saltbush	ATCA2	2-8	---	---	---	---
pigmy sagebrush	ARPY2	---	---	---	X	---
shadscale	ATCO	---	---	2-5	---	1-5
spiny hopsage	GRSP	---	---	5-15	---	---
winterfat	EULA5	2-5	---	---	---	25-30
Utah juniper	JUOS	---	5-15	---	X	---
singleleaf pinyon	PIMO	---	---	---	X	---
Range site number		028AY013NV	028AY027NV	028AY028NV	028AY021NV	028AY002NV
Potential production (lb/acre):						
Favorable years		700	400	900	200	800
Normal years		500	350	700	100	600
Unfavorable years		300	125	400	75	400

411--JERICHO-ARMESPAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		JERICHO	ARMESPAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	10-25	35-45	5-15	15-25	2-10
Sandberg bluegrass	POSE	2-5	2-5	---	---	---	2-8
blue grama	BOGR2	---	---	---	1-5	---	---
bluebunch wheatgrass	AGSP	---	---	---	30-40	---	---
bluegrass	POA++	---	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5	---
galleta	HIJA	2-8	2-8	2-8	---	2-5	1-5
needleandthread	STCO4	2-10	2-10	2-8	2-5	5-10	1-5
sand dropseed	SPCR	---	---	2-5	---	---	---
globemallow	SPHAE	---	---	2-5	---	---	---
scarlet globemallow	SPCO	---	---	---	---	2-5	---
Nevada ephedra	EPNE	---	---	---	---	---	5-10
Stansbury cliffrose	COMES	---	---	---	2-8	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---
big sagebrush	ARTR2	---	---	---	---	---	30-45
black sagebrush	ARARN	15-30	15-30	---	25-35	---	---
bud sagebrush	ARSP5	---	---	2-10	---	2-5	---
horsebrush	TETRA3	---	---	---	---	---	2-8
other shrubs	S888	---	---	---	---	---	5-25
rubber rabbitbrush	CHNA2	---	---	---	---	---	5-20
shadscale	ATCO	2-5	2-5	20-30	---	2-5	---
spiny hopsage	GRSP	---	---	---	---	5-15	2-8
winterfat	EULA5	5-10	5-10	5-15	---	---	---

Range site number	028AY004NV	028AY004NV	028AY018NV	028AY034NV	028AY028NV	028AY038NV
Potential production (lb/acre):						
Favorable years	500	500	700	600	900	1000
Normal years	325	325	500	400	700	700
Unfavorable years	100	100	300	200	400	500

420--PALINOR ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PALINOR	PALINOR	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	20-35	15-25	X	20-30	40-50
Sandberg bluegrass	POSE	2-8	2-8	---	---	2-5	---
basin wildrye	ELCI2	---	---	---	X	---	---
bluegrass	POA++	---	---	---	X	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	X	2-8	2-5
needleandthread	STCO4	5-15	5-15	5-10	X	10-20	---
scarlet globemallow	SPCO	---	---	2-5	---	---	---
thickstem wildcabbage	CACR11	---	---	---	X	---	---
Utah juniper	JUOS	---	---	---	X	---	---
Wyoming big sagebrush	ARTRW	---	---	20-35	---	25-35	---
antelope bitterbrush	PUTR2	---	---	---	X	---	---
black sagebrush	ARARN	25-35	25-35	---	X	---	---
bud sagebrush	ARSP5	---	---	---	---	---	5-15
downy rabbitbrush	CHVIP4	2-5	2-5	---	---	---	---
rabbitbrush	CHRS9	---	---	---	---	2-5	---
shadscale	ATCO	2-5	2-5	2-5	---	---	---
spiny hopsage	GRSP	---	---	5-20	---	---	---
winterfat	EULAS	---	---	---	---	---	20-30
Range site number		028BY011NV	028BY011NV	028BY052NV	028BY083NV	028BY010NV	028BY084NV
Potential production (lb/acre):							
Favorable years		600	600	800	300	800	900
Normal years		450	450	600	200	600	700
Unfavorable years		250	250	450	125	400	400

421--PALINOR-AUTOMAL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PALINOR	AUTOMAL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-35	20-35	20-30	40-50	15-25
Sandberg bluegrass	POSE	2-8	2-8	2-5	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-8	2-5	2-5
needleandthread	STCO4	5-15	5-15	10-20	---	5-10
scarlet globemallow	SPCO	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	---	---	25-35	---	20-35
black sagebrush	ARARN	25-35	25-35	---	---	---
bud sagebrush	ARSP5	---	---	---	5-15	---
downy rabbitbrush	CHVIP4	2-5	2-5	---	---	---
rabbitbrush	CHRY9	---	---	2-5	---	---
shadscale	ATCO	2-5	2-5	---	---	2-5
spiny hopsage	GRSP	---	---	---	---	5-20
winterfat	EULAS	---	---	---	20-30	---
Range site number		028BY011NV	028BY011NV	028BY010NV	028BY084NV	028BY052NV
Potential production (lb/acre):						
Favorable years		600	600	800	900	800
Normal years		450	450	600	700	600
Unfavorable years		250	250	400	400	450

422--PALINOR-ZIMBOB-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PALINOR	ZIMBOB	OKAN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-35	10-20	20-30	20-35	15-25	---
Sandberg bluegrass	POSE	2-8	2-5	2-5	2-8	2-5	---
Scribner needlegrass	STSC2	---	---	---	---	2-5	---
bluebunch wheatgrass	AGSP	---	---	---	---	2-5	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-8	2-5	2-5	---
needleandthread	STCO4	5-15	10-20	10-20	5-15	---	---
Wyoming big sagebrush	ARTRW	---	---	25-35	---	---	---
black sagebrush	ARARN	25-35	35-45	---	25-35	30-35	---
downy rabbitbrush	CHVIP4	2-5	---	---	2-5	---	---
rabbitbrush	CHRY89	---	---	2-5	---	---	---
shadscale	ATCO	2-5	2-5	---	2-5	---	---
Range site number		028BY011NV	028BY016NV	028BY010NV	028BY011NV	028BY059NV	None
Potential production (lb/acre):							
Favorable years		600	350	800	600	400	
Normal years		450	225	600	450	350	
Unfavorable years		250	100	400	250	125	

424--PALINOR-HUNDRAW-OKAN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PALINOR	HUNDRAW	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	X	15-25	10-20	X	20-35	X
Sandberg bluegrass	POSE	2-8	---	---	2-5	---	2-8	---
Thurber needlegrass	STTH2	---	---	---	---	X	---	X
basin wildrye	ELCI2	---	X	---	---	X	---	X
bluebunch wheatgrass	AGSP	---	---	---	---	X	---	X
bluegrass	POA++	---	X	---	---	X	---	X
bottlebrush squirreltail	SIBY	2-5	X	2-5	2-5	X	2-5	X
needleandthread	STCO4	5-15	X	5-10	10-20	---	5-15	---
arrowleaf balsamroot	BASA3	---	---	---	---	X	---	X
scarlet globemallow	SPOC	---	---	2-5	---	---	---	---
tapertip hawkbeard	CRAC2	---	---	---	---	X	---	X
thickstem wildcabbage	CACR11	---	X	---	---	---	---	---
Stansbury cliffrose	COMES	---	---	---	---	X	---	X
Utah juniper	JUOS	---	X	---	---	X	---	X
Wyoming big sagebrush	ARTRW	---	---	20-35	---	---	---	---
antelope bitterbrush	PTR2	---	X	---	---	X	---	X
black sagebrush	ARARN	25-35	X	---	35-45	X	25-35	X
curleaf mountainmahogany	CELE3	---	---	---	---	X	---	X
downy rabbitbrush	CHVIP4	2-5	---	---	---	---	2-5	---
serviceberry	AMELA	---	---	---	---	X	---	X
shadscale	ATCO	2-5	---	2-5	2-5	---	2-5	---
spiny hopsage	GRSP	---	---	5-20	---	---	---	---
Utah juniper	JUOS	---	X	---	---	X	---	X
singleleaf pinyon	PIMO	---	---	---	---	X	---	X

Range site number	028BY011NV	028BY083NV	028BY052NV	028BY016NV	028BY060NV	028BY011NV	028BY060NV
Potential production (lb/acre):							
Favorable years	600	300	800	350	500	600	500
Normal years	450	200	600	225	300	450	300
Unfavorable years	250	125	450	100	250	250	250

426--PALINOR-AUTOMAL-WINTERMUTE ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PALINOR	AUTOMAL	WINTERMUTE	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-35	20-35	40-50	10-20	X
Sandberg bluegrass	POSE	2-8	2-8	---	---	---
Thurber needlegrass	STTH2	---	---	---	---	X
basin wildrye	ELCI2	---	---	---	---	X
bluebunch wheatgrass	AGSP	---	---	---	20-40	X
bluegrass	POA++	---	---	---	---	X
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	---	X
muttongrass	POPE	---	---	---	2-8	---
needleandthread	STCO4	5-15	5-15	---	2-5	---
arrowleaf balsamroot	BASA3	---	---	---	---	X
globemallow	SPHAE	---	---	1-5	---	---
tapertip hawksbeard	CRAC2	---	---	---	---	X
Stansbury cliffrose	COMES	---	---	---	---	X
antelope bitterbrush	PUTR2	---	---	---	---	X
black sagebrush	ARARN	25-35	25-35	---	20-30	X
curlleaf mountainmahogany	CELE3	---	---	---	---	X
downy rabbitbrush	CHVIP4	2-5	2-5	---	---	---
serviceberry	AMELA	---	---	---	---	X
shadscale	ATCO	2-5	2-5	25-35	---	---
winterfat	EULA5	---	---	---	2-5	---
Utah juniper	JUOS	---	---	---	---	X
singleleaf pinyon	PIMO	---	---	---	---	X
Range site number		028BY011NV	028BY011NV	028BY075NV	028BY006NV	028BY060NV
Potential production (lb/acre):						
Favorable years		600	600	700	800	500
Normal years		450	450	500	600	300
Unfavorable years		250	250	300	400	250

429--PALINOR-AUTOMAL-PALINOR, ERODED ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PALINOR	AUTOMAL	PALINOR	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	20-35	X	10-20	15-25	40-50	5-10
Sandberg bluegrass	POSE	2-8	2-8	---	---	---	---	---
basin wildrye	ELCI2	---	---	X	---	---	---	10-20
bluebunch wheatgrass	AGSP	---	---	---	20-40	---	---	---
bluegrass	POA++	---	---	X	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	X	---	2-5	2-5	---
muttongrass	POFE	---	---	---	2-8	---	---	---
needleandthread	STCO4	5-15	5-15	X	2-5	5-10	---	---
thickspike wheatgrass	AGDA	---	---	---	---	---	---	5-10
globemallow	SPHAE	---	---	---	---	---	1-5	---
scarlet globemallow	SPCO	---	---	---	---	2-5	---	---
thickstem wildcabbage	CACR11	---	---	X	---	---	---	---
Utah juniper	JUOS	---	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	20-35	---	25-35
antelope bitterbrush	PUTR2	---	---	X	---	---	---	---
black sagebrush	ARARN	25-35	25-35	X	20-30	---	---	---
downy rabbitbrush	CHVIP4	2-5	2-5	---	---	---	---	---
shadscale	ATCO	2-5	2-5	---	---	2-5	25-35	---
spiny hopsage	GRSP	---	---	---	---	5-20	---	---
winterfat	EULA5	---	---	---	2-5	---	5-10	---
Range site number:		028BY011NV	028BY011NV	028BY083NV	028BY006NV	028BY052NV	028BY075NV	028BY045NV
Potential production (lb/acre):								
Favorable years		600	600	300	800	800	700	1000
Normal years		450	450	200	600	600	500	800
Unfavorable years		250	250	125	400	450	300	600

430--GRALEY-PIOCHE-CROPPER ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		GRALEY	PIOCHE	CROPPER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	X	X	---	---	---	---
Indian ricegrass	ORHY	---	X	---	---	---	---	---
Sandberg bluegrass	POSE	---	X	X	---	---	---	---
Thurber needlegrass	STTH2	15-30	X	---	---	---	10-20	10-20
basin wildrye	ELCI2	2-8	X	X	---	---	2-10	2-10
bluebunch wheatgrass	AGSP	20-40	X	X	20-30	---	30-40	30-40
bluegrass	POA++	2-5	---	---	2-10	---	2-8	2-8
bottlebrush squirreltail	SIHY	---	X	X	---	---	---	---
muttongrass	POPE	---	---	X	---	---	---	---
arrowleaf balsamroot	BASA3	---	X	X	---	---	---	---
crag aster	ASSC3	2-5	---	---	---	---	---	---
tapertip hawksbeard	CRAC2	2-5	X	X	---	---	---	---
antelope bitterbrush	PUTR2	5-10	X	X	2-5	---	2-10	2-10
curlleaf mountainmahogany	CELE3	---	---	X	---	---	---	---
ephedra	EPHE3	---	X	---	---	---	---	---
low sagebrush	ARAR8	---	---	---	25-35	---	---	---
mountain big sagebrush	ARVA2	15-25	X	X	---	---	15-25	15-25
serviceberry	AMELA	---	X	X	---	---	---	---
snowberry	SYMPH	---	---	X	---	---	---	---
Utah juniper	JUOS	---	X	X	---	---	---	---
singleleaf pinyon	PIMO	---	X	X	---	---	---	---
Range site number		028BY087NV	028BY062NV	028BY058NV	028BY037NV	None	028BY030NV	028BY030NV
Potential production (lb/acre):								
Favorable years		900	700	500	800		1500	1500
Normal years		700	500	300	600		1200	1200
Unfavorable years		450	300	200	400		900	900

431--GRALEY-CHEN-MCIVEY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		GRALEY	CHEN	MCIVEY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	---	2-5	---	---	---
Idaho fescue	FEID	30-40	30-50	30-40	2-10	---	X	---
Nevada bluegrass	PONE3	2-5	---	2-5	2-5	5-10	---	---
alpine timothy	PHAL2	---	---	---	---	5-10	---	---
basin wildrye	ELCI2	2-10	---	2-10	---	---	---	---
bluebunch wheatgrass	AGSP	15-30	15-30	15-30	2-5	---	---	---
bluegrass	POA++	---	2-10	---	---	---	---	---
horsemint giant hyssop	AGUR	---	---	---	---	---	X	---
mountain brome	BRCA5	---	---	---	5-15	---	X	---
sedge	CAREX	---	---	---	---	5-10	---	---
slender wheatgrass	AGTR	---	---	---	5-15	---	X	---
spike-fescue	LEKI2	---	---	---	2-10	---	---	---
tufted hairgrass	DecE	---	---	---	---	30-60	---	---
Sierra clover	TRWO	---	---	---	---	2-5	---	---
arrowleaf balsamroot	BASA3	2-5	---	2-5	---	---	---	---
cinquefoil	POTEN	---	---	---	---	2-5	---	---
groundsel	SENEC	---	---	---	---	---	X	---
tapertip hawkbeard	CRAC2	2-5	---	2-5	---	---	---	---
Utah serviceberry	AMUT	---	---	---	1-5	---	X	---
antelope bitterbrush	PUTR2	5-10	2-5	5-10	1-5	---	---	---
common chokecherry	PRVI	---	---	---	1-5	---	---	---
low sagebrush	ARAR8	---	15-25	---	---	---	---	---
mountain big sagebrush	ARVA2	10-20	---	10-20	5-15	---	---	---
snowberry	SYMPH	---	---	---	2-15	---	X	---
quaking aspen	POTRT	---	---	---	---	---	X	---
Range site number		025XY012NV	025XY017NV	025XY012NV	025XY004NV	025XY005NV	025XY065NV	None
Potential production (lb/acra):								
Favorable years		1400	900	1400	2800	3000	800	
Normal years		1000	700	1000	1800	1700	600	
Unfavorable years		700	400	700	1200	1000	400	

440--LOMOINE-BIJORJA ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		LOMOINE	BIJORJA	LOMOINE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	10-25	X	10-20	---	15-25
Sandberg bluegrass	POSE	---	2-5	2-5	---	---	---	---
Thurber needlegrass	STPH2	---	---	---	X	---	---	---
basin wildrye	ELCI2	---	---	---	X	---	---	---
bluebunch wheatgrass	AGSP	---	---	---	X	20-40	---	---
bluegrass	POA++	---	---	---	X	---	---	---
bottlebrush squirreltail	SIHY	---	2-8	---	X	---	---	2-5
galleta	HIJA	2-5	---	2-8	---	---	---	---
muttongrass	POSE	---	---	---	---	2-8	---	---
needleandthread	STCO4	15-25	10-20	2-10	---	2-5	---	5-10
sand dropseed	SPCR	2-5	---	---	---	---	---	---
arrowleaf balsamroot	BASA3	---	---	---	X	---	---	---
globemallow	SPHAE	2-5	---	---	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	---	---	2-5
tapertip hawksbeard	CRAC2	---	---	---	X	---	---	---
Stansbury cliffrose	COMES	---	---	---	X	---	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	---	---	20-35
antelope bitterbrush	PUTR2	---	---	---	X	---	---	---
black sagebrush	ARARN	15-30	---	15-30	X	20-30	---	---
curlleaf mountainmahogany	CELE3	---	---	---	X	---	---	---
fourwing saltbush	ATCA2	2-8	---	---	---	---	---	---
rabbitbrush	CHRY89	---	2-5	---	---	---	---	---
serviceberry	AMELA	---	---	---	X	---	---	---
shadscale	ATCO	---	---	2-5	---	---	---	2-5
spiny hopsage	GRSP	---	---	---	---	---	---	5-20
winterfat	EULA5	2-5	---	5-10	---	2-5	---	---
Utah juniper	JUOS	---	---	---	X	---	---	---
singleleaf pinyon	PIMO	---	---	---	X	---	---	---

Range site number	028AY013NV	028BY010NV	028AY004NV	028BY060NV	028BY006NV	None	028BY052NV
Potential production (lb/acre):							
Favorable years	700	800	500	500	800		800
Normal years	500	600	325	300	600		600
Unfavorable years	300	400	100	250	400		450

460--OKAN-AUTOMAL-HUNDRAW ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		OKAN	AUTOMAL	HUNDRAW	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-30	20-35	20-35	20-35	15-25
Sandberg bluegrass	POSE	2-5	2-8	2-8	2-8	---
bottlebrush squirreltail	SIHY	2-8	2-5	2-5	2-5	2-5
needleandthread	STCO4	10-20	5-15	5-15	5-15	5-10
scarlet globemallow	SFCO	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	25-35	---	---	---	20-35
black sagebrush	ARARN	---	25-35	25-35	25-35	---
downy rabbitbrush	CHVIP4	---	2-5	2-5	2-5	---
rabbitbrush	CHYS9	2-5	---	---	---	---
shadscale	ATCO	---	2-5	2-5	2-5	2-5
spiny hopsage	GRSP	---	---	---	---	5-20
Range site number		028BY010NV	028BY011NV	028BY011NV	028BY011NV	028BY052NV
Potential production (lb/acre):						
Favorable years		800	600	600	600	800
Normal years		600	450	450	450	600
Unfavorable years		400	250	250	250	450

470--ROZARA-CUCAMUNGO-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		ROZARA	CUCAMUNGO	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3
Columbia needlegrass	STNE3	---	---	---	---	2-5	5-10
Idaho fescue	FEID	15-25	X	---	---	2-10	2-5
Nevada bluegrass	PONE3	---	X	---	---	2-5	---
arrowleaf balsamroot	BASA3	---	X	---	---	---	---
basin wildrye	ELCI2	---	X	---	---	---	---
bluebunch wheatgrass	AGSP	5-15	X	---	20-30	2-5	---
bluegrass	POA++	2-5	---	---	2-10	---	2-5
mountain brome	BRCA5	---	---	---	---	5-15	2-5
needlegrass	STIPA	2-8	---	---	---	---	---
slender wheatgrass	AGTR	---	---	---	---	5-15	2-5
spike-fescue	LEKI2	---	---	---	---	2-10	---
tapertip hawksbeard	CRAC2	---	X	---	---	---	---
Utah serviceberry	AMUT	---	X	---	---	1-5	---
antelope bitterbrush	PUTR2	2-5	X	---	2-5	1-5	---
common chokecherry	PRVI	---	---	---	---	1-5	---
curlleaf mountainmahogany	CELE3	---	X	---	---	---	50-70
low sagebrush	ARAR8	---	---	---	25-35	---	---
mountain big sagebrush	ARVA2	5-15	X	---	---	5-15	---
mountain snowberry	SYOR2	---	---	---	---	---	2-5
snowberry	SYMPH	2-8	X	---	---	2-15	---
singleleaf pinyon	PIMO	---	X	---	---	---	---
Range site number		025XY071NV	025XY061NV	None	028BY037NV	025XY004NV	025XY030NV
Potential production (lb/acre):							
Favorable years		1700	500		800	2800	3000
Normal years		1300	375		600	1800	2400
Unfavorable years		900	250		400	1200	1700

471--CUCAMUNGO-HENDAP-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		CUCAMUNGO	HENDAP	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	X	---	---	---	---	---	
Indian ricegrass	ORHY	---	X	---	2-5	---	10-20	
Sandberg bluegrass	POSE	X	---	---	---	---	15-25	
Thurber needlegrass	STTH2	---	X	---	30-40	---	---	
basin wildrye	ELCI2	X	X	---	---	2-8	---	
bluebunch wheatgrass	AGSP	X	X	---	15-30	30-40	20-40	
bluegrass	POA++	---	X	---	2-8	2-8	2-5	
bottlebrush squirreltail	SIHY	X	X	---	---	---	2-5	
muttongrass	POPE	X	---	---	---	---	---	
needleandthread	STCO4	---	---	---	2-8	---	2-5	
needlegrass	STIPA	---	---	---	---	5-15	---	
arrowleaf balsamroot	BASA3	X	X	---	2-5	2-5	---	
goldenweed	HAPLO2	---	---	---	---	---	2-5	
scarlet globemallow	SPCO	---	---	---	---	---	2-5	
tapertip hawkbeard	CRAC2	X	X	---	2-5	2-5	2-5	
Stansbury cliffrose	COMES	---	X	---	---	---	---	
Utah serviceberry	AMUT	---	---	---	---	2-8	---	
Wyoming big sagebrush	ARTRW	---	---	---	---	---	20-35	
antelope bitterbrush	POTR2	X	X	---	2-10	2-8	---	
big sagebrush	ARTR2	---	---	---	15-25	---	---	
black sagebrush	ARARN	---	X	---	---	---	25-35	
curlleaf mountainmahogany	CELE3	X	X	---	---	---	---	
mountain big sagebrush	ARVA2	X	---	---	---	10-20	---	
serviceberry	AMELA	X	X	---	---	---	---	
shadscale	ATCO	---	---	---	---	---	2-5	
snowberry	SYMPH	X	---	---	---	2-8	---	
spiny hopsage	GRSP	---	---	---	---	---	5-20	
winterfat	EULA5	---	---	---	---	---	2-5	
Utah juniper	JUOS	X	X	---	---	---	---	
singleleaf pinyon	FIMO	X	X	---	---	---	---	
Range site number		028BY058NV	028BY060NV	None	028BY007NV	028BY015NV	028BY008NV	028BY052NV
Potential production (lb/acre):								
Favorable years		500	500		1000	1500	600	800
Normal years		300	300		800	1100	400	600
Unfavorable years		200	250		600	700	200	450

480--SHABLISS-PALINOR ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SHABLISS	PALINOR	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-35	15-25	15-25	20-30	15-25
Sandberg bluegrass	POSE	2-5	2-8	---	---	2-5	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	5-10	2-8	2-5
needleandthread	STCO4	10-20	5-15	5-10	---	10-20	5-10
other perennial grasses	PPGG	---	---	---	2-5	---	---
globemallow	SPHA	---	---	---	2-5	---	---
scarlet globemallow	SPCO	---	---	2-5	---	---	2-5
Wyoming big sagebrush	ARTRW	25-35	---	20-35	---	25-35	20-35
black sagebrush	ARARN	---	25-35	---	---	---	---
bud sagebrush	ARSP5	---	---	---	2-8	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---	---
fourwing saltbush	ATCA2	---	---	---	2-5	---	---
rabbitbrush	CHRY99	---	---	---	---	2-5	---
shadscale	ATCO	---	2-5	2-5	---	---	2-5
spiny hopsage	GRSP	---	---	5-20	---	---	5-20
winterfat	EULA5	---	---	---	40-50	---	---
Range site number		028BY080NV	028BY011NV	028BY052NV	028BY013NV	028BY010NV	028BY052NV
Potential production (lb/acre):							
Favorable years		600	600	800	700	800	800
Normal years		400	450	600	500	600	600
Unfavorable years		200	250	450	350	400	450

485--SHABLISS-PARISA-HUNNTON ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		SHABLISS	PARISA	HUNNTON	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-30	20-30	20-30	20-30	5-10
Sandberg bluegrass	POSE	2-5	2-5	2-5	2-5	---
basin wildrye	ELCI2	---	---	---	---	10-20
bottlebrush squirreltail	SIHY	2-8	2-8	2-8	2-8	---
needleandthread	STCO4	10-20	10-20	10-20	10-20	---
thickspike wheatgrass	AGDA	---	---	---	---	5-10
Wyoming big sagebrush	ARTRW	25-35	25-35	25-35	25-35	25-35
rabbitbrush	CHRS9	2-5	2-5	2-5	2-5	---
Range site number		028BY010NV	028BY010NV	028BY010NV	028BY010NV	028BY045NV
Potential production (lb/acre):						
Favorable years		800	800	800	800	1000
Normal years		600	600	600	600	800
Unfavorable years		400	400	400	400	600

490--WINTERMUTE-AUTOMAL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		WINTERMUTE	AUTOMAL	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	40-50	20-35	20-30	2-10	20-30	40-50
Sandberg bluegrass	POSE	---	2-8	2-5	---	2-5	---
basin wildrye	ELCI2	---	---	---	10-20	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-8	---	2-8	2-5
needleandthread	STCO4	---	5-15	10-20	---	10-20	---
globemallow	SPHAE	1-5	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	25-35	---	25-35	---
big sagebrush	ARTR2	---	---	---	20-30	---	---
black greasewood	SAVE4	---	---	---	30-40	---	---
black sagebrush	ARARN	---	25-35	---	---	---	---
bud sagebrush	ARSP5	---	---	---	---	---	5-15
downy rabbitbrush	CHVIP4	---	2-5	---	---	---	---
rabbitbrush	CHRYB9	---	---	2-5	---	2-5	---
rubber rabbitbrush	CHNA2	---	---	---	2-5	---	---
shadscale	ATCO	25-35	2-5	---	---	---	---
winterfat	EULAS	5-10	---	---	---	---	20-30
Range site number		028BY075NV	028BY011NV	028BY010NV	028BY028NV	028BY010NV	028BY084NV
Potential production (lb/acre):							
Favorable years		700	600	800	800	800	900
Normal years		500	450	600	600	600	700
Unfavorable years		300	250	400	400	400	400

492--WINTERMUTE-PEEKO-HUNDRAW ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable.
Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		WINTERMUTE	PEEKO	HUNDRAW	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	20-35	10-20	X	15-25	20-30
Sandberg bluegrass	POSE	---	2-8	2-5	---	---	2-5
basin wildrye	ELCI2	---	---	---	X	---	---
bluegrass	FOA++	---	---	---	X	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	X	2-5	2-8
needleandthread	STCO4	---	5-15	10-20	X	5-10	10-20
globemallow	SPHAE	1-5	---	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	2-5	---
thickstem wildcabbage	CACR11	---	---	---	X	---	---
Utah juniper	JUOS	---	---	---	X	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	20-35	25-35
antelope bitterbrush	POTR2	---	---	---	X	---	---
black sagebrush	ARARN	---	25-35	35-45	X	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---	---
rabbitbrush	CHRY89	---	---	---	---	---	2-5
shadscale	ATCO	25-35	2-5	2-5	---	2-5	---
spiny hopsage	GRSP	---	---	---	---	5-20	---
winterfat	EULA5	5-10	---	---	---	---	---
Range site number		028BY075NV	028BY011NV	028BY016NV	028BY083NV	028BY052NV	028BY010NV
Potential production (lb/acre):							
Favorable years		700	600	350	300	800	800
Normal years		500	450	225	200	600	600
Unfavorable years		300	250	100	125	450	400

494--WINTERMUTE-PYRAT-AUTOMAL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		WINTERMUTE	PYRAT	AUTOMAL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	20-30	20-35	15-25	10-20	20-35
Sandberg bluegrass	POSE	---	2-5	2-8	---	2-5	2-8
bottlebrush squirreltail	SIHY	2-5	2-8	2-5	2-5	2-5	2-5
needleandthread	STCO4	---	10-20	5-15	5-10	10-20	5-15
globemallow	SPHAE	1-5	---	---	---	---	---
scarlet globemallow	SPCO	---	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	20-35	---	---
black sagebrush	ARARN	---	---	25-35	---	35-45	25-35
downy rabbitbrush	CHVIP4	---	---	2-5	---	---	2-5
rabbitbrush	CHRY9	---	2-5	---	---	---	---
shadscale	ATCO	25-35	---	2-5	2-5	2-5	2-5
spiny hopsage	GRSP	---	---	---	5-20	---	---
winterfat	EULAS	5-10	---	---	---	---	---
Range site number		028BY075NV	028BY010NV	028BY011NV	028BY052NV	028BY016NV	028BY011NV
Potential production (lb/acre):							
Favorable years		700	800	600	800	350	600
Normal years		500	600	450	600	225	450
Unfavorable years		300	400	250	450	100	250

496--SODHOUSE-LINOYER ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SODHOUSE	SODHOUSE	LINOYER	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	---	40-50	20-30	20-35	20-30
Sandberg bluegrass	POSE	---	---	---	2-5	2-8	2-5
blue grama	BOGR2	---	X	---	---	---	---
bluebunch wheatgrass	AGSP	---	X	---	---	---	---
bluegrass	POA++	---	X	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	X	2-5	2-8	2-5	2-8
muttongrass	POPE	---	X	---	---	---	---
needleandthread	STCO4	---	---	---	10-20	5-15	10-20
penstemon	PENST	---	X	---	---	---	---
phlox	PHLOX	---	X	---	---	---	---
Douglas rabbitbrush	CHVI8	---	X	---	---	---	---
Utah serviceberry	AMUT	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	25-35
black sagebrush	ARARN	---	---	---	---	25-35	---
bud sagebrush	ARSP5	5-15	---	5-15	---	---	---
curleaf mountainmahogany	CELE3	---	X	---	---	---	---
downy rabbitbrush	CHVIP4	---	---	---	---	2-5	---
green ephedra	EPVI	---	X	---	---	---	---
greenleaf manzanita	ARPA6	---	X	---	---	---	---
low sagebrush	ARAR8	---	X	---	---	---	---
rabbitbrush	CHRY89	---	---	---	2-5	---	2-5
shadscale	ATCO	---	---	---	---	2-5	---
winterfat	EULA5	20-30	---	20-30	---	---	---
Utah juniper	JUOS	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	X	---	---	---	---
white fir	ABCO	---	X	---	---	---	---
Range site number		028BY084NV	028AY075NV	028BY084NV	028BY010NV	028BY011NV	028BY010NV
Potential production (lb/acre):							
Favorable years		900	500	900	800	600	800
Normal years		700	300	700	600	450	600
Unfavorable years		400	150	400	400	250	400

497--SODHOUSE-PALINOR ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		SODHOUSE	SODHOUSE	PALINOR	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	40-50	---	20-35	20-30	15-25	X	5-10
Sandberg bluegrass	POSE	---	---	2-8	2-5	---	---	---
basin wildrye	ELCI2	---	---	---	---	---	X	10-20
blue grama	BOGR2	---	X	---	---	---	---	---
bluebunch wheatgrass	AGSP	---	X	---	---	---	---	---
bluegrass	POA++	---	X	---	---	---	X	---
bottlebrush squirreltail	SIHY	2-5	X	2-5	2-8	5-10	X	---
muttongrass	POPE	---	X	---	---	---	---	---
needleandthread	STCO4	---	---	5-15	10-20	---	X	---
other perennial grasses	PPGG	---	---	---	---	2-5	---	---
thickspike wheatgrass	AGDA	---	---	---	---	---	---	5-10
globemallow	SPHAE	---	---	---	---	2-5	---	---
penstemon	PENST	---	X	---	---	---	---	---
phlox	PHLOX	---	X	---	---	---	---	---
thickstem wildcabbage	CACR11	---	---	---	---	---	X	---
Douglas rabbitbrush	CHVI8	---	X	---	---	---	---	---
Utah juniper	JUOS	---	X	---	---	---	X	---
Utah serviceberry	AMUT	---	X	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	---	25-35
antelope bitterbrush	PTR2	---	---	---	---	---	X	---
black sagebrush	ARARN	---	---	25-35	---	---	X	---
bud sagebrush	ARSP5	5-15	---	---	---	2-8	---	---
curlleaf mountainmahogany	CELE3	---	X	---	---	---	---	---
downy rabbitbrush	CHVIP4	---	---	2-5	---	---	---	---
fourwing saltbush	ATCA2	---	---	---	---	2-5	---	---
green ephedra	EPVI	---	X	---	---	---	---	---
greenleaf manzanita	ARPA6	---	X	---	---	---	---	---
low sagebrush	ARAR8	---	X	---	---	---	---	---
rabbitbrush	CHRY89	---	---	---	2-5	---	---	---
shadscale	ATCO	---	---	2-5	---	---	---	---
winterfat	EULA5	20-30	---	---	---	40-50	---	---
Utah juniper	JUOS	---	X	---	---	---	X	---
singleleaf pinyon	PIMO	---	X	---	---	---	---	---
white fir	ABCO	---	X	---	---	---	---	---

Range site number	028BY084NV	028AY075NV	028BY011NV	028BY010NV	028BY013NV	028BY083NV	028BY045NV
Potential production (lb/acre):							
Favorable years	900	500	600	800	700	300	1000
Normal years	700	300	450	600	500	200	800
Unfavorable years	400	150	250	400	350	125	600

501--PHARO-IZAR-OKAN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PHARO	IZAR	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORRY	10-20	10-20	15-25	10-20	X	20-35	20-35
Sandberg bluegrass	POSE	---	2-5	---	---	---	2-8	2-8
Thurber needlegrass	STTH2	---	---	---	---	X	---	---
basin wildrye	ELCI2	---	---	---	---	X	---	---
bluebunch wheatgrass	AGSP	20-40	---	---	20-40	X	---	---
bluegrass	POA++	---	---	---	---	X	---	---
bottlebrush squirreltail	SIHY	---	2-5	2-5	---	X	2-5	2-5
muttongrass	POPE	2-8	---	---	2-8	---	---	---
needleandthread	STCO4	2-5	10-20	5-10	2-5	---	5-15	5-15
arrowleaf balsamroot	BASA3	---	---	---	---	X	---	---
scarlet globemallow	SPCO	---	---	2-5	---	---	---	---
tapertip hawkbeard	CRAC2	---	---	---	---	X	---	---
Stansbury cliffrose	COMES	---	---	---	---	X	---	---
Wyoming big sagebrush	ARTRW	---	---	20-35	---	---	---	---
antelope bitterbrush	PUTR2	---	---	---	---	X	---	---
black sagebrush	ARARN	20-30	35-45	---	20-30	X	25-35	25-35
curlleaf mountainmahogany	CELE3	---	---	---	---	X	---	---
downy rabbitbrush	CHVIP4	---	---	---	---	---	2-5	2-5
serviceberry	AMELA	---	---	---	---	X	---	---
shadscale	ATCO	---	2-5	2-5	---	---	2-5	2-5
spiny hopsage	GRSP	---	---	5-20	---	---	---	---
winterfat	EULA5	2-5	---	---	2-5	---	---	---
Utah juniper	JUOS	---	---	---	---	X	---	---
singleleaf pinyon	PIMO	---	---	---	---	X	---	---
Range site number		028BY006NV	028BY016NV	028BY052NV	028BY006NV	028BY060NV	028BY011NV	028BY011NV
Potential production (lb/acre):								
Favorable years		800	350	800	800	500	600	600
Normal years		600	225	600	600	300	450	450
Unfavorable years		400	100	450	400	250	250	250

503--AUTOMAL-OKAN-WINTERMUTE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		AUTOMAL	OKAN	WINTERMUTE	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-35	20-30	40-50	15-25	20-35	20-35
Sandberg bluegrass	POSE	2-8	2-5	---	---	2-8	2-8
bottlebrush squirreltail	SIHY	2-5	2-8	2-5	5-10	2-5	2-5
needleandthread	STCO4	5-15	10-20	---	---	5-15	5-15
other perennial grasses	PPGG	---	---	---	2-5	---	---
globemallow	SPHAE	---	---	1-5	2-5	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	---	---
black sagebrush	ARARN	25-35	---	---	---	25-35	25-35
bud sagebrush	ARSP5	---	---	---	2-8	---	---
downy rabbitbrush	CHVIP4	2-5	---	---	---	2-5	2-5
fourwing saltbush	ATCA2	---	---	---	2-5	---	---
rabbitbrush	CHRY89	---	2-5	---	---	---	---
shadscale	ATCO	2-5	---	25-35	---	2-5	2-5
winterfat	EULA5	---	---	5-10	40-50	---	---
Range site number		028BY011NV	028BY010NV	028BY075NV	028BY013NV	028BY011NV	028BY011NV
Potential production (lb/acre):							
Favorable years		600	800	700	700	600	600
Normal years		450	600	500	500	450	450
Unfavorable years		250	400	300	350	250	250

504--AUTOMAL-WINTERMUTE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		AUTOMAL	WINTERMUTE	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-35	40-50	40-50	10-20	15-25
Sandberg bluegrass	POSE	2-8	---	---	---	---
bluebunch wheatgrass	AGSP	---	---	---	20-40	---
bottlebrush squirreltail	SIRY	2-5	2-5	2-5	---	2-5
muttongrass	POPE	---	---	---	2-8	---
needleandthread	STCO4	5-15	---	---	2-5	5-10
globemallow	SPHAE	---	1-5	---	---	---
scarlet globemallow	SPCO	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	---	---	---	---	20-35
black sagebrush	ARARN	25-35	---	---	20-30	---
bud sagebrush	ARSP5	---	---	5-15	---	---
downy rabbitbrush	CHVIP4	2-5	---	---	---	---
shadscale	ATCO	2-5	25-35	---	---	2-5
spiny hopsage	GRSP	---	---	---	---	5-20
winterfat	EULA5	---	5-10	20-30	2-5	---
Range site number		028BY011NV	028BY075NV	028BY084NV	028BY006NV	028BY052NV
Potential production (lb/acre):						
Favorable years		600	700	900	800	800
Normal years		450	500	700	600	600
Unfavorable years		250	300	400	400	450

510--ADOBE-HAUNCHEE-HARDZEM ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ADOBE	HARDZEM	HAUNCHEE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	---	---	5-15	---	---	---
Columbia needlegrass	STNE3	---	---	---	---	---	X	---
Indian ricegrass	ORHY	---	---	---	---	X	---	---
Letterman needlegrass	STLE4	---	X	---	---	---	X	---
Thurber needlegrass	STTH2	---	---	---	---	X	---	---
basin wildrye	ELCI2	---	---	---	---	X	---	---
bluebunch wheatgrass	AGSP	60-80	X	20-30	60-80	X	---	30-45
bluegrass	POA++	---	---	---	---	X	---	---
bottlebrush squirreltail	SIBY	---	---	---	---	X	---	---
mountain brome	BRCA5	---	---	---	---	---	X	---
muttongrass	POPE	2-10	X	2-8	---	---	---	5-10
needlegrass	STPA	---	---	5-15	---	---	---	---
pine needlegrass	STPI2	---	---	---	---	---	---	2-8
pinegrass	CARU	---	---	---	---	---	X	---
sedge	CAREX	---	X	---	---	---	---	---
slender wheatgrass	AGTR	---	---	---	---	---	X	---
spike-fescue	LEKI2	---	X	---	1-10	---	---	---
Fendler meadowrue	TFPE	---	---	---	---	X	X	---
arrowleaf balsamroot	BASA3	---	---	---	---	X	---	---
creeping barberry	BERE	---	X	---	---	---	---	---
dandelion	TARAX	---	---	---	---	---	X	---
fleabane	ERIGE2	---	---	---	---	---	X	---
goldenweed	HAPLO2	2-5	X	---	---	---	---	2-8
milkvetch	ASTRA	---	---	---	---	---	X	---
penstemon	PENST	---	---	---	---	---	X	---
starwort	STELL	---	---	---	---	---	X	---
tapertip hawksbeard	CRAC2	---	---	---	---	X	---	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	---	2-5
Stansbury cliffrose	COMES	---	---	---	---	X	---	---
antelope bitterbrush	POTR2	---	---	---	---	X	---	---
black sagebrush	ARARN	25-35	---	---	---	X	---	35-45
common juniper	JUCO6	---	X	---	---	---	---	---
curleaf mountainmahogany	CELE3	---	---	15-25	---	X	---	---
mountain big sagebrush	ARVA2	---	X	15-25	10-20	---	---	---
mountain gooseberry	RIMO2	---	---	---	---	---	X	---
serviceberry	AMELA	---	X	---	---	X	---	---
snowberry	SYMPH	---	---	2-8	2-8	---	X	---
western raspberry	RULE	---	---	---	---	---	X	---
Engelmann spruce	PIEN	---	---	---	---	---	X	---
Utah juniper	JUOS	---	---	---	---	X	---	---
bristlecone pine	PIAR	---	X	---	---	---	---	---
curleaf mountainmahogany	CELE3	---	---	15-25	---	X	---	---
limber pine	PIPL2	---	X	---	---	---	---	---
quaking aspen	POTRT	---	---	---	---	---	X	---
singleleaf pinyon	PIMO	---	---	---	---	X	---	---
white fir	ABCO	---	X	---	---	---	X	---

Range site number	028BY027NV	028BY063NV	028BY043NV	028BY070NV	028BY060NV	028BY072NV	028BY048NV
Potential production (lb/acre):							
Favorable years	600	800	1700	1100	500	400	350
Normal years	450	500	1300	900	300	250	200
Unfavorable years	300	300	900	600	250	100	100

511--ADOBE-WARDBAY-HARDOL ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		ADOBE	WARDBAY	HARDOL	Inclusion 1	Inclusion 2	Inclusion 3
Canby bluegrass	POCA	---	5-15	---	---	---	---
Indian ricegrass	ORHY	---	---	---	---	X	---
Thurber needlegrass	STH2	---	---	---	---	X	---
basin wildrye	ELCI2	---	---	---	---	X	---
bluebunch wheatgrass	AGSP	30-45	60-80	15-30	---	X	20-30
bluegrass	POA++	---	---	---	---	X	---
bottlebrush squirreltail	SIHY	---	---	---	---	X	---
mountain brome	BRCA5	---	---	5-10	---	---	---
muttongrass	POPE	5-10	---	---	---	---	2-8
needlegrass	STIPA	---	---	15-30	---	---	5-15
pine needlegrass	STPI2	2-8	---	---	---	---	---
slender wheatgrass	AGTR	---	---	5-10	---	---	---
spike-fescue	LEKI2	---	1-10	5-10	---	---	---
arrowleaf balsamroot	BASA3	---	---	---	---	X	---
goldenweed	HAPLO2	2-8	---	---	---	---	---
tapertip hawkbeard	CRAC2	---	---	---	---	X	---
Douglas rabbitbrush	CHVI8	2-5	---	---	---	---	---
Stansbury cliffrose	COMES	---	---	---	---	X	---
Utah serviceberry	AMUT	---	---	1-5	---	---	---
antelope bitterbrush	PUTR2	---	---	---	---	X	---
black sagebrush	ARARN	35-45	---	---	---	X	---
curleaf mountainmahogany	CELE3	---	---	---	---	X	15-25
mountain big sagebrush	ARVA2	---	10-20	15-25	---	---	15-25
serviceberry	AMELA	---	---	---	---	X	---
snowberry	SYMPH	---	2-8	2-8	---	---	2-8
Utah juniper	JUOS	---	---	---	---	X	---
curleaf mountainmahogany	CELE3	---	---	---	---	X	15-25
singleleaf pinyon	PIMO	---	---	---	---	X	---
Range site number		028BY048NV	028BY070NV	028BY085NV	None	028BY060NV	028BY043NV
Potential production (lb/acre):							
Favorable years		350	1100	1500		500	1700
Normal years		200	900	1100		300	1300
Unfavorable years		100	600	700		250	900

512--ADOBE-CAVEHILL-WARDBAY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ADOBE	CAVEHILL	WARDBAY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	X	5-15	---	---	---	---
Indian ricegrass	ORHY	---	---	---	10-20	X	---	---
Sandberg bluegrass	POSE	---	X	---	---	---	---	---
Thurber needlegrass	STTH2	---	---	---	---	X	---	---
basin wildrye	ELCI2	---	X	---	---	X	---	2-8
bluebunch wheatgrass	AGSP	60-80	X	60-80	20-40	X	---	40-50
bluegrass	POA++	---	---	---	2-5	X	---	5-10
bottlebrush squirreltail	SIHY	---	X	---	---	X	---	---
muttongrass	POFE	2-10	X	---	---	---	---	---
needleandthread	STCO4	---	---	---	2-5	---	---	---
spike-fescue	LEKI2	---	---	1-10	---	---	---	---
arrowleaf balsamroot	BASA3	---	X	---	---	X	---	---
goldenweed	HAPLO2	2-5	---	---	2-5	---	---	---
tapertip hawksbeard	CRAC2	---	X	---	2-5	X	---	---
Stansbury cliffrose	COMES	---	---	---	---	X	---	---
Utah serviceberry	AMUT	---	---	---	---	---	---	1-5
antelope bitterbrush	PUTR2	---	X	---	---	X	---	2-10
black sagebrush	ARARN	25-35	---	---	25-35	X	---	---
curlleaf mountainmahogany	CELE3	---	X	---	---	X	---	---
mountain big sagebrush	ARVA2	---	X	10-20	---	---	---	10-20
serviceberry	AMELA	---	X	---	---	X	---	---
shadscale	ATCO	---	---	---	2-5	---	---	---
snowberry	SYMPH	---	X	2-8	---	---	---	2-5
winterfat	EULAS	---	---	---	2-5	---	---	---
Utah juniper	JUOS	---	X	---	---	X	---	---
singleleaf pinyon	PIMO	---	X	---	---	X	---	---

Range site number	028BY027NV	028BY058NV	028BY070NV	028BY008NV	028BY060NV	None	028BY088NV
Potential production (lb/acre):							
Favorable years	600	500	1100	600	500		1100
Normal years	450	300	900	400	300		900
Unfavorable years	300	200	600	200	250		700

520--HAUNCHEE-MUIRAL-WARD BAY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		HAUNCHEE	MUIRAL	WARD BAY	Inclusion 1	Inclusion 2	Inclusion 3
Canby bluegrass	POCA	---	---	5-15	---	---	---
Columbia needlegrass	STNE3	---	X	---	---	---	---
Letterman needlegrass	STLE4	---	X	---	---	X	---
bluebunch wheatgrass	AGSP	20-30	---	60-80	60-80	X	30-45
mountain brome	BRCA5	---	X	---	---	---	---
muttongrass	POPE	2-8	---	---	2-10	X	5-10
needlegrass	STIPA	5-15	---	---	---	---	---
pine needlegrass	STPI2	---	---	---	---	---	2-8
pinegrass	CARU	---	X	---	---	---	---
sedge	CAREX	---	---	---	---	X	---
slender wheatgrass	AGTR	---	X	---	---	---	---
spike-fescue	LEKI2	---	---	1-10	---	X	---
Fendler meadowrue	THPE	---	X	---	---	---	---
creeping barberry	BERE	---	---	---	---	X	---
dandelion	TARAX	---	X	---	---	---	---
fleabane	ERIGE2	---	X	---	---	---	---
goldenweed	HAPLO2	---	---	---	2-5	X	2-8
milkvetch	ASTRA	---	X	---	---	---	---
penstemon	PENST	---	X	---	---	---	---
starwort	STELL	---	X	---	---	---	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	2-5
black sagebrush	ARARN	---	---	---	25-35	---	35-45
common juniper	JUCO6	---	---	---	---	X	---
mountain big sagebrush	ARVA2	15-25	---	10-20	---	X	---
mountain gooseberry	RIMO2	---	X	---	---	---	---
serviceberry	AMELA	---	---	---	---	X	---
snowberry	SYMPH	2-8	X	2-8	---	---	---
western raspberry	RULE	---	X	---	---	---	---
Engelmann spruce	PIEN	---	X	---	---	---	---
bristlecone pine	PIAR	---	---	---	---	X	---
curlleaf mountainmahogany	CELE3	15-25	---	---	---	---	---
limber pine	PIPL2	---	---	---	---	X	---
quaking aspen	POTRT	---	X	---	---	---	---
white fir	ABCO	---	X	---	---	X	---

Range site number	028BY043NV	028BY072NV	028BY070NV	028BY027NV	028BY063NV	028BY048NV
Potential production (lb/acre):						
Favorable years	1700	400	1100	600	800	350
Normal years	1300	250	900	450	500	200
Unfavorable years	900	100	600	300	300	100

530--WARD BAY-ADOBE-HAUNCHEE ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		WARD BAY	ADOBE	HAUNCHEE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	5-15	---	---	---	---	---	---
Columbia needlegrass	STNE3	---	---	---	---	X	---	---
Indian ricegrass	ORRY	---	---	---	---	---	---	X
Letterman needlegrass	STLE4	---	---	---	---	X	---	---
Sandberg bluegrass	POSE	---	---	---	---	---	---	X
bluebunch wheatgrass	AGSP	60-80	60-80	20-30	15-30	---	30-45	X
bottlebrush squirreltail	SIHY	---	---	---	---	---	---	X
mountain brome	BRCA5	---	---	---	5-10	X	---	---
muttongrass	POPE	---	2-10	2-8	---	---	5-10	X
needlegrass	STIPA	---	---	5-15	15-30	---	---	---
pine needlegrass	STPI2	---	---	---	---	---	2-8	---
pinegrass	CARU	---	---	---	---	X	---	---
slender wheatgrass	AGTR	---	---	---	5-10	X	---	---
spike-fescue	LEKI2	1-10	---	---	5-10	---	---	---
Fendler meadowrue	THFE	---	---	---	---	X	---	---
arrowleaf balsamroot	BASA3	---	---	---	---	---	---	X
dandelion	TARAX	---	---	---	---	X	---	---
fleabane	ERIGE2	---	---	---	---	X	---	---
goldenweed	HAPLO2	---	2-5	---	---	---	2-8	---
milkvetch	ASTRA	---	---	---	---	X	---	---
penstemon	PENST	---	---	---	---	X	---	---
phlox	PHLOX	---	---	---	---	---	---	X
starwort	STELL	---	---	---	---	X	---	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	2-5	---
Utah serviceberry	AMUT	---	---	---	1-5	---	---	---
antelope bitterbrush	PUTR2	---	---	---	---	---	---	X
black sagebrush	ARARN	---	25-35	---	---	---	35-45	---
mountain big sagebrush	ARVA2	10-20	---	15-25	15-25	---	---	X
mountain gooseberry	RIMO2	---	---	---	---	X	---	---
serviceberry	AMELA	---	---	---	---	---	---	X
snowberry	SYMPH	2-8	---	2-8	2-8	X	---	---
western raspberry	RULE	---	---	---	---	X	---	---
Engelmann spruce	PIEN	---	---	---	---	X	---	---
curlleaf mountainmahogany	CELE3	---	---	15-25	---	---	---	---
quaking aspen	POTRT	---	---	---	---	X	---	---
singleleaf pinyon	PIMO	---	---	---	---	---	---	X
white fir	ABCO	---	---	---	---	X	---	---

Range site number	028BY070NV	028BY027NV	028BY043NV	028BY085NV	028BY072NV	028BY048NV	028BY076NV
Potential production (lb/acre):							
Favorable years	1100	600	1700	1500	400	350	500
Normal years	900	450	1300	1100	250	200	350
Unfavorable years	600	300	900	700	100	100	200

532--ONKEYO-POOKALOO-TECOMar ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ONKEYO	POOKALOO	TECOMar	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	---	---	---	---	30-40	15-30	---
Indian ricegrass	ORHY	2-8	X	10-20	---	---	---	---
Nevada bluegrass	PONE3	---	---	---	---	2-5	---	---
Thurber needlegrass	STTH2	---	X	---	---	---	2-5	---
basin wildrye	ELCI2	---	X	---	---	2-10	---	20-40
bluebunch wheatgrass	AGSP	15-25	X	20-40	20-30	15-30	10-20	---
bluegrass	POA++	5-15	X	2-5	---	---	---	5-15
bottlebrush squirreltail	SIHY	---	X	---	---	---	---	---
muttongrass	POFE	---	---	---	2-8	---	---	---
needleandthread	STCO4	---	---	2-5	---	---	---	10-20
needlegrass	STIPA	---	---	---	5-15	---	---	---
thickspike wheatgrass	AGDA	---	---	---	---	---	---	5-15
arrowleaf balsamroot	BASA3	---	X	---	---	2-5	---	---
goldenweed	HAPLO2	---	---	2-5	---	---	---	---
tapertip hawksbeard	CRAC2	---	X	2-5	---	2-5	---	---
Stansbury cliffrose	COMES	---	X	---	---	---	---	---
antelope bitterbrush	PUTR2	30-45	X	---	---	5-10	20-40	---
big sagebrush	ARTR2	---	---	---	---	---	---	10-20
black sagebrush	ARARN	---	X	25-35	---	---	---	---
curleaf mountainmahogany	CELE3	---	X	---	15-25	---	---	---
mountain big sagebrush	ARVA2	5-15	---	---	15-25	10-20	5-10	---
rabbitbrush	CHRY59	---	---	---	---	---	---	2-5
serviceberry	AMELA	---	X	---	---	---	---	---
shadscale	ATCO	---	---	2-5	---	---	---	---
snowberry	SYMPH	---	---	---	2-8	---	---	---
winterfat	EULA5	---	---	2-5	---	---	---	---
Utah juniper	JUOS	---	X	---	---	---	---	---
curleaf mountainmahogany	CELE3	---	X	---	15-25	---	---	---
singleleaf pinyon	PIMO	---	X	---	---	---	---	---

Range site number	028BY096NV	028BY060NV	028BY008NV	028BY043NV	025XY012NV	025XY007NV	028BY082NV
Potential production (lb/acre):							
Favorable years	1200	500	600	1700	1400	2300	1400
Normal years	900	300	400	1300	1000	1400	1100
Unfavorable years	700	250	200	900	700	900	900

540--KUNZLER-SYCOMAT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		KUNZLER	SYCOMAT	Inclusion 1	Inclusion 2	Inclusion 3
Baltic rush	JUBA	---	---	2-8	---	---
Indian ricegrass	OREY	2-10	2-5	---	---	---
alkali cordgrass	SPGR	---	---	10-15	---	---
alkali sacaton	SPAI	---	---	40-50	---	5-10
alkaligrass	PUCCI	---	---	2-5	---	---
basin wildrye	ELCI2	10-20	---	---	2-5	2-5
bluegrass	POA++	---	---	2-8	25-40	---
bottlebrush squirreltail	SIEY	---	2-5	---	---	---
inland saltgrass	DISPS2	---	---	2-5	---	2-8
mat muhly	MURI	---	---	---	2-5	---
rush	JunCU	---	---	---	5-15	---
sedge	CAREX	---	---	5-10	20-30	---
cinquefoil	POTEN	---	---	---	2-5	---
groundsel	SENEC	---	---	---	2-5	---
big sagebrush	ARTR2	20-30	---	---	---	---
black greasewood	SAVE4	30-40	20-30	---	---	60-75
bud sagebrush	ARSP5	---	2-10	---	---	---
rubber rabbitbrush	CHNA2	2-5	---	---	---	2-5
shadscale	ATCO	---	20-50	---	---	2-5
Range site number		028BY028NV	028BY074NV	028BY002NV	028BY001NV	028BY020NV
Potential production (lb/acre):						
Favorable years		800	600	1500	4000	500
Normal years		600	400	1000	2000	300
Unfavorable years		400	200	700	1200	150

541--KUNZLER-SHEFFIT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		KUNZLER	SHEFFIT	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORRY	2-10	2-10	5-10	15-25	10-25
basin wildrye	ELCI2	10-20	10-20	10-20	5-10	---
bottlebrush squirreltail	SIHY	---	---	---	2-8	---
needleandthread	STCO4	---	---	---	---	2-5
other perennial grasses	PPGG	---	---	---	---	2-8
thickspike wheatgrass	AGDA	---	---	5-10	---	5-15
wheatgrass	AGROP2	---	---	---	5-15	---
Wyoming big sagebrush	ARTRW	---	---	25-35	30-45	---
big sagebrush	ARTR2	20-30	20-30	---	---	30-40
black greasewood	SAVE4	30-40	30-40	---	---	---
fourwing saltbush	ATCA2	---	---	---	---	5-15
rubber rabbitbrush	CHNA2	2-5	2-5	---	---	2-5
spiny hopsage	GRSP	---	---	---	---	5-10
winterfat	EULA5	---	---	---	2-8	---
Range site number		028BY028NV	028BY028NV	028BY045NV	028BY014NV	028BY068NV
Potential production (lb/acre):						
Favorable years		800	800	1000	600	800
Normal years		600	600	800	450	500
Unfavorable years		400	400	600	200	300

550--URMAFOT-BOBS-URMAFOT, ERODED ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		URMAFOT	BOBS	URMAFOT	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	OREY	10-20	5-15	X	10-20	---	---
Nevada bluegrass	PONE3	---	---	---	---	---	5-10
Thurber needlegrass	STPH2	---	---	X	---	---	---
basin wildrye	ELCI2	---	2-5	X	---	2-8	70-80
bluebunch wheatgrass	AGSP	20-40	30-50	X	20-40	40-50	---
bluegrass	FOA++	---	2-8	X	---	5-10	---
bottlebrush squirreltail	SIEY	---	---	X	---	---	---
muttongrass	POPE	2-8	---	---	2-8	---	---
needleandthread	STCO4	2-5	2-5	---	2-5	---	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	---
tapertip hawksbeard	CRAC2	---	---	X	---	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---
Utah serviceberry	AMUT	---	---	---	---	1-5	---
antelope bitterbrush	PUPR2	---	---	X	---	2-10	---
basin big sagebrush	ARTR2	---	---	---	---	---	5-10
big sagebrush	ARTR2	---	20-30	---	---	---	---
black sagebrush	ARARN	20-30	---	X	20-30	---	---
curleaf mountainmahogany	CELE3	---	---	X	---	---	---
mountain big sagebrush	ARVA2	---	---	---	---	10-20	---
serviceberry	AMELA	---	---	X	---	---	---
snowberry	SYMPH	---	---	---	---	2-5	---
winterfat	EULA5	2-5	---	---	2-5	---	---
Utah juniper	JUOS	---	---	X	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---
Range site number		028BY006NV	028BY094NV	028BY060NV	028BY006NV	028BY088NV	028BY003NV
Potential production (lb/acre):							
Favorable years		800	800	500	800	1100	5000
Normal years		600	600	300	600	900	2500
Unfavorable years		400	400	250	400	700	1500

551--URMAPOT-BOBS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		URMAPOT	BOBS	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	5-15	2-5	10-20	2-5	2-5
Thurber needlegrass	STH2	---	---	30-40	---	30-40	30-40
basin wildrye	ELCI2	---	2-5	---	---	---	---
bluebunch wheatgrass	AGSP	20-40	30-50	15-30	20-40	15-30	15-30
bluegrass	POA++	---	2-8	2-8	---	2-8	2-8
muttongrass	POPE	2-8	---	---	2-8	---	---
needleandthread	STCO4	2-5	2-5	2-8	2-5	2-8	2-8
arrowleaf balsamroot	BASA3	---	---	2-5	---	2-5	2-5
tapertip hawksbeard	CRAC2	---	---	2-5	---	2-5	2-5
antelope bitterbrush	PTR2	---	---	2-10	---	2-10	2-10
big sagebrush	ARTR2	---	20-30	15-25	---	15-25	15-25
black sagebrush	ARARN	20-30	---	---	20-30	---	---
winterfat	EULA5	2-5	---	---	2-5	---	---
Range site number		028BY006NV	028BY094NV	028BY007NV	028BY006NV	028BY007NV	028BY007NV
Potential production (lb/acre):							
Favorable years		800	800	1000	800	1000	1000
Normal years		600	600	800	600	800	800
Unfavorable years		400	400	600	400	600	600

552--URMAFOT-PHARO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		URMAFOT	PHARO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	10-20	10-20	2-8	X	---
Thurber needlegrass	STTB2	---	---	---	---	X	---
basin wildrye	ELCI2	---	---	---	---	X	20-40
bluebunch wheatgrass	AGSP	20-40	20-40	20-40	15-25	X	---
bluegrass	POA++	---	---	2-5	5-15	X	5-15
bottlebrush squirreltail	SIHY	---	---	---	---	X	---
muttongrass	POPE	2-8	2-8	---	---	---	---
needleandthread	STCO4	2-5	2-5	2-5	---	---	10-20
thickspike wheatgrass	AGDA	---	---	---	---	---	5-15
arrowleaf balsamroot	BASA3	---	---	---	---	X	---
goldenweed	HAPLO2	---	---	2-5	---	---	---
tapertip hawksbeard	CRAC2	---	---	2-5	---	X	---
Stansbury cliffrose	COMES	---	---	---	---	X	---
antelope bitterbrush	PUTR2	---	---	---	30-45	X	---
big sagebrush	ARTR2	---	---	---	---	---	10-20
black sagebrush	ARARN	20-30	20-30	25-35	---	X	---
curlleaf mountainmahogany	CELE3	---	---	---	---	X	---
mountain big sagebrush	ARVA2	---	---	---	5-15	---	---
rabbitbrush	CHRY39	---	---	---	---	---	2-5
serviceberry	AMELA	---	---	---	---	X	---
shadscale	ATCO	---	---	2-5	---	---	---
winterfat	EULA5	2-5	2-5	2-5	---	---	---
Utah juniper	JUOS	---	---	---	---	X	---
singleleaf pinyon	PIMO	---	---	---	---	X	---

Range site number	028BY006NV	028BY006NV	028BY008NV	028BY096NV	028BY060NV	028BY082NV
Potential production (lb/acre):						
Favorable years	800	800	600	1200	500	1400
Normal years	600	600	400	900	300	1100
Unfavorable years	400	400	200	700	250	900

554--URMAPOT-TECOMar ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		URMAPOT	TECOMar	URMAPOT	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	10-20	10-20	X	5-15	5-10	10-20
Sandberg bluegrass	POSE	---	---	---	---	---	2-5
Thurber needlegrass	STH2	---	---	X	---	---	---
basin wildrye	ELCI2	---	---	X	2-5	10-20	---
bluebunch wheatgrass	AGSP	20-40	20-40	X	30-50	---	---
bluegrass	POA++	---	2-5	X	2-8	---	---
bottlebrush squirreltail	SIHY	---	---	X	---	---	2-5
muttongrass	POFE	2-8	---	---	---	---	---
needleandthread	STCO4	2-5	2-5	---	2-5	---	10-20
thickspike wheatgrass	AGDA	---	---	---	---	5-10	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	---
goldenweed	HAPLO2	---	2-5	---	---	---	---
tapertip hawksbeard	CRAC2	---	2-5	X	---	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---
antelope bitterbrush	POTR2	---	---	X	---	---	---
big sagebrush	ARTR2	---	---	---	20-30	---	---
black sagebrush	ARARN	20-30	25-35	X	---	---	35-45
curleaf mountainmahogany	CELE3	---	---	X	---	---	---
serviceberry	AMELA	---	---	X	---	---	---
shadscale	ATCO	---	2-5	---	---	---	2-5
winterfat	EULA5	2-5	2-5	---	---	---	---
Utah juniper	JUOS	---	---	X	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---

Range site number	028BY006NV	028BY008NV	028BY060NV	028BY094NV	028BY045NV	028BY016NV
Potential production (lb/acre):						
Favorable years	800	600	500	800	1000	350
Normal years	600	400	300	600	800	225
Unfavorable years	400	200	250	400	600	100

561--PALINOR-URMAFOT-PALINOR, STEEP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PALINOR	URMAFOT	PALINOR	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	10-20	20-35	20-30	10-20	20-30	X
Sandberg bluegrass	POSE	2-8	---	2-8	2-5	---	2-5	---
Thurber needlegrass	STTH2	---	---	---	---	---	---	X
basin wildrye	ELCI2	---	---	---	---	---	---	X
bluebunch wheatgrass	AGSP	---	20-40	---	---	20-40	---	X
bluegrass	POA++	---	---	---	---	2-5	---	X
bottlebrush squirreltail	SIHY	2-5	---	2-5	2-8	---	2-5	X
muttongrass	POPE	---	2-8	---	---	---	---	---
needleandthread	STCO4	5-15	2-5	5-15	10-20	2-5	10-20	---
arrowleaf balsamroot	BASA3	---	---	---	---	---	---	X
goldenweed	HAPLO2	---	---	---	---	2-5	---	---
tapertip hawksbeard	CRAC2	---	---	---	---	2-5	---	X
Stansbury cliffrose	COMES	---	---	---	---	---	---	X
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	25-35	---
antelope bitterbrush	PTR2	---	---	---	---	---	---	X
black sagebrush	ARARN	25-35	20-30	25-35	---	25-35	---	X
curleaf mountainmahogany	CELE3	---	---	---	---	---	---	X
downy rabbitbrush	CHVIP4	2-5	---	2-5	---	---	---	---
rabbitbrush	CHRY9	---	---	---	2-5	---	---	---
serviceberry	AMELA	---	---	---	---	---	---	X
shadscale	ATCO	2-5	---	2-5	---	2-5	---	---
winterfat	EULA5	---	2-5	---	---	2-5	---	---
Utah juniper	JUOS	---	---	---	---	---	---	X
singleleaf pinyon	PIMO	---	---	---	---	---	---	X
Range site number		028BY011NV	028BY006NV	028BY011NV	028BY010NV	028BY008NV	028BY080NV	028BY060NV
Potential production (lb/acre):								
Favorable years		600	800	600	800	600	600	500
Normal years		450	600	450	600	400	400	300
Unfavorable years		250	400	250	400	200	200	250

562--BOBS VERY GRAVELLY LOAM, 2 TO 8 PERCENT SLOPES

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		BOBS	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORBY	5-15	5-15	5-10	---	20-35
Nevada bluegrass	PONE3	---	---	---	5-10	---
Sandberg bluegrass	POSE	---	---	---	---	2-8
basin wildrye	ELCI2	2-5	2-5	10-20	70-80	---
bluebunch wheatgrass	AGSP	30-50	30-50	---	---	---
bluegrass	POA++	2-8	2-8	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5
needleandthread	STCO4	2-5	2-5	---	---	5-15
thickspike wheatgrass	AGDA	---	---	5-10	---	---
Wyoming big sagebrush	ARTRW	---	---	25-35	---	---
basin big sagebrush	ARTRT	---	---	---	5-10	---
big sagebrush	ARTR2	20-30	20-30	---	---	---
black sagebrush	ARARN	---	---	---	---	25-35
downy rabbitbrush	CEVIP4	---	---	---	---	2-5
shadscale	ATCO	---	---	---	---	2-5
Range site number		028BY094NV	028BY094NV	028BY045NV	028BY003NV	028BY011NV
Potential production (lb/acre):						
Favorable years		800	800	1000	5000	600
Normal years		600	600	800	2500	450
Unfavorable years		400	400	600	1500	250

563--BOBS-PYRAT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		BOBS	PYRAT	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-5	2-5	2-5	20-35
Sandberg bluegrass	POSE	---	---	---	2-8
Thurber needlegrass	STTH2	30-40	30-40	30-40	---
bluebunch wheatgrass	AGSP	15-30	15-30	15-30	---
bluegrass	POA++	2-8	2-8	2-8	---
bottlebrush squirreltail	SIHY	---	---	---	2-5
needleandthread	STCO4	2-8	2-8	2-8	5-15
arrowleaf balsamroot	BASA3	2-5	2-5	2-5	---
tapertip hawksbeard	CRAC2	2-5	2-5	2-5	---
antelope bitterbrush	PUTR2	2-10	2-10	2-10	---
big sagebrush	ARTR2	15-25	15-25	15-25	---
black sagebrush	ARARN	---	---	---	25-35
downy rabbitbrush	CHVIP4	---	---	---	2-5
shadscale	ATCO	---	---	---	2-5
Range site number		028BY007NV	028BY007NV	028BY007NV	028BY011NV
Potential production (lb/acre):					
Favorable years		1000	1000	1000	600
Normal years		800	800	800	450
Unfavorable years		600	600	600	250

575--POOKALOO-CAVEHILL-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		POOKALOO	CAVEHILL	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	X	---	---	---	---	X
Indian ricegrass	ORHY	X	---	---	10-20	---	5-15	X
Sandberg bluegrass	POSE	---	X	---	---	---	---	X
Thurber needlegrass	STH2	X	---	---	---	---	---	X
basin wildrye	ELCI2	X	X	---	---	---	2-5	X
bluebunch wheatgrass	AGSP	X	X	---	20-40	20-30	30-50	X
bluegrass	POA++	X	---	---	2-5	---	2-8	---
bottlebrush squirreltail	SIHY	X	X	---	---	---	---	X
muttongrass	POPE	---	X	---	---	2-8	---	---
needleandthread	STCO4	---	---	---	2-5	---	2-5	---
needlegrass	STIPA	---	---	---	---	5-15	---	---
arrowleaf balsamroot	BASA3	X	X	---	---	---	---	X
goldenweed	HAPLO2	---	---	---	2-5	---	---	---
tapertip hawkbeard	CRAC2	X	X	---	2-5	---	---	X
Stansbury cliffrose	COMES	X	---	---	---	---	---	---
antelope bitterbrush	PUTR2	X	X	---	---	---	---	X
big sagebrush	ARTR2	---	---	---	---	---	20-30	---
black sagebrush	ARARN	X	---	---	25-35	---	---	---
curlleaf mountainmahogany	CELE3	X	X	---	---	15-25	---	---
ephedra	EPHED	---	---	---	---	---	---	X
mountain big sagebrush	ARVA2	---	X	---	---	15-25	---	X
serviceberry	AMELA	X	X	---	---	---	---	X
shadscale	ATCO	---	---	---	2-5	---	---	---
snowberry	SYMPH	---	X	---	---	2-8	---	---
winterfat	EULA5	---	---	---	2-5	---	---	---
Utah juniper	JUOS	X	X	---	---	---	---	X
curlleaf mountainmahogany	CELE3	X	X	---	---	15-25	---	---
singleleaf pinyon	PIMO	X	X	---	---	---	---	X
Range site number		028BY060NV	028BY058NV	None	028BY008NV	028BY043NV	028BY094NV	028BY062NV
Potential production (lb/acre):								
Favorable years		500	500		600	1700	800	700
Normal years		300	300		400	1300	600	500
Unfavorable years		250	200		200	900	400	300

576--POOKALOO-TECOMar-ONKEYO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		POOKALOO	TECOMar	ONKEYO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	X	10-20	15-30	10-20	5-15	---	5-10
Sandberg bluegrass	POSE	---	---	---	2-5	---	---	---
Thurber needlegrass	STH2	X	---	---	---	---	---	---
basin wildrye	ELCI2	X	---	---	---	2-5	---	10-20
bluebunch wheatgrass	AGSP	X	20-40	30-40	---	30-50	---	---
bluegrass	POA++	X	2-5	5-10	---	2-8	---	---
bottlebrush squirreltail	SIHY	X	---	---	2-5	---	---	---
needleandthread	STCO4	---	2-5	---	10-20	2-5	---	---
thickspike wheatgrass	AGDA	---	---	---	---	---	---	5-10
arrowleaf balsamroot	BASA3	X	---	---	---	---	---	---
goldenweed	HAPLO2	---	2-5	---	---	---	---	---
tapertip hawkbeard	CRAC2	X	2-5	---	---	---	---	---
Stansbury cliffrose	COMES	X	---	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	---	25-35
antelope bitterbrush	POTR2	X	---	5-10	---	---	---	---
big sagebrush	ARTR2	---	---	---	---	20-30	---	---
black sagebrush	ARARN	X	25-35	---	35-45	---	---	---
curleaf mountainmahogany	CELE3	X	---	---	---	---	---	---
mountain big sagebrush	ARVA2	---	---	15-25	---	---	---	---
serviceberry	AMELA	X	---	---	---	---	---	---
shadscale	ATCO	---	2-5	---	2-5	---	---	---
winterfat	EULA5	---	2-5	---	---	---	---	---
Utah juniper	JUOS	X	---	---	---	---	---	---
singleleaf pinyon	PIMO	X	---	---	---	---	---	---

Range site number	028BY060NV	028BY008NV	028BY079NV	028BY016NV	028BY094NV	None	028BY045NV
Potential production (lb/acre):							
Favorable years	500	600	700	350	800		1000
Normal years	300	400	500	225	600		800
Unfavorable years	250	200	300	100	400		600

582--SHEFFIT-KATELANA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SHEFFIT	SHEFFIT	KATELANA	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	2-10	2-5	10-25	2-5	---
basin wildrye	ELCI2	40-60	10-20	---	---	---	2-5
bluegrass	POA++	---	---	---	---	---	25-40
bottlebrush squirreltail	SIHY	---	---	2-5	---	2-5	---
creeping wildrye	ELTR3	5-30	---	---	---	---	---
mat muhly	MURI	---	---	---	---	---	2-5
needleandthread	STCO4	---	---	---	2-5	---	---
other perennial grasses	PPGG	---	---	---	2-8	---	---
rush	JuncU	---	---	---	---	---	5-15
sedge	CAREX	---	---	---	---	---	20-30
thickspike wheatgrass	AGDA	---	---	---	5-15	---	---
cinquefoil	POTEN	---	---	---	---	---	2-5
groundsel	SENEC	---	---	---	---	---	2-5
big sagebrush	ARTR2	5-15	20-30	---	30-40	---	---
black greasewood	SAVE4	---	30-40	20-30	---	20-30	---
bud sagebrush	ARSP5	---	---	2-10	---	2-10	---
fourwing saltbush	ATCA2	---	---	---	5-15	---	---
rubber rabbitbrush	CHNA2	---	2-5	---	2-5	---	---
shadscale	ATCO	---	---	20-50	---	20-50	---
spiny hopsage	GRSP	---	---	---	5-10	---	---
Range site number		028AY025NV	028BY028NV	028BY074NV	028BY068NV	028BY074NV	028BY001NV
Potential production (lb/acre):							
Favorable years		1800	800	600	800	600	4000
Normal years		1500	600	400	500	400	2000
Unfavorable years		1100	400	200	300	200	1200

590--UPATAD-SEGURA ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		UPATAD	SEGURA	Inclusion 1	Inclusion 2
Canby bluegrass	POCA	---	---	---	X
Indian ricegrass	ORHY	X	---	2-5	X
Sandberg bluegrass	POSE	---	---	---	X
Thurber needlegrass	STTH2	X	15-30	30-40	X
basin wildrye	ELCI2	X	2-8	---	X
bluebunch wheatgrass	AGSP	X	20-40	15-30	X
bluegrass	POA++	X	2-5	2-8	---
bottlebrush squirreltail	SIHY	X	---	---	X
needleandthread	STCO4	---	---	2-8	---
arrowleaf balsamroot	BASA3	X	---	2-5	X
crag aster	ASSC3	---	2-5	---	---
tapertip hawksbeard	CRAC2	X	2-5	2-5	X
Stansbury cliffrose	COMES	X	---	---	---
antelope bitterbrush	PUTR2	X	5-10	2-10	X
big sagebrush	ARTR2	---	---	15-25	---
black sagebrush	ARARN	X	---	---	---
curlleaf mountainmahogany	CELE3	X	---	---	---
ephedra	EPHED	---	---	---	X
mountain big sagebrush	ARVA2	---	15-25	---	X
serviceberry	AMELA	X	---	---	X
Utah juniper	JUOS	X	---	---	X
singleleaf pinyon	PIMO	X	---	---	X
Range site number		028BY060NV	028BY087NV	028BY007NV	028BY062NV
Potential production (lb/acre):					
Favorable years		500	900	1000	700
Normal years		300	700	800	500
Unfavorable years		250	450	600	300

600--ONKEYO-AMENE-POOKALOO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ONKEYO	AMENE	POOKALOO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-8	15-30	X	---	---	2-5	---
Thurber needlegrass	STTH2	---	---	X	---	---	30-40	---
basin wildrye	ELCI2	---	---	X	---	---	---	---
bluebunch wheatgrass	AGSP	15-25	30-40	X	60-80	20-30	15-30	---
bluegrass	FOA++	5-15	5-10	X	---	---	2-8	---
bottlebrush squirreltail	SIHY	---	---	X	---	---	---	---
muttongrass	POFE	---	---	---	2-10	2-8	---	---
needleandthread	STCO4	---	---	---	---	---	2-8	---
needlegrass	STIPA	---	---	---	---	5-15	---	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	2-5	---
goldenweed	HAPLO2	---	---	---	2-5	---	---	---
tapertip hawksbeard	CRAC2	---	---	X	---	---	2-5	---
Stansbury cliffrose	COMES	---	---	X	---	---	---	---
antelope bitterbrush	PUTR2	30-45	5-10	X	---	---	2-10	---
big sagebrush	ARTR2	---	---	---	---	---	15-25	---
black sagebrush	ARARN	---	---	X	25-35	---	---	---
curleaf mountainmahogany	CELE3	---	---	X	---	15-25	---	---
mountain big sagebrush	ARVA2	5-15	15-25	---	---	15-25	---	---
serviceberry	AMELA	---	---	X	---	---	---	---
snowberry	SYMPH	---	---	---	---	2-8	---	---
Utah juniper	JUOS	---	---	X	---	---	---	---
curleaf mountainmahogany	CELE3	---	---	X	---	15-25	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---	---

Range site number	028BY096NV	028BY079NV	028BY060NV	028BY027NV	028BY043NV	028BY007NV	None
Potential production (lb/acre):							
Favorable years	1200	700	500	600	1700	1000	
Normal years	900	500	300	450	1300	800	
Unfavorable years	700	300	250	300	900	600	

610--WINTERMUTE-EASTWELL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		WINTERMUTE	EASTWELL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	20-35	40-50	15-25	20-30
Sandberg bluegrass	POSE	---	2-8	---	---	2-5
bottlebrush squirreltail	SIBY	2-5	2-5	2-5	2-5	2-8
needleandthread	STCO4	---	5-15	---	5-10	10-20
globemallow	SPHA	1-5	---	1-5	---	---
scarlet globemallow	SPCO	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	---	---	---	20-35	25-35
black sagebrush	ARARN	---	25-35	---	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---
rabbitbrush	CHRY89	---	---	---	---	2-5
shadscale	ATCO	25-35	2-5	25-35	2-5	---
spiny hopsage	GRSP	---	---	---	5-20	---
winterfat	EULA5	5-10	---	5-10	---	---
Range site number		028BY075NV	028BY011NV	028BY075NV	028BY052NV	028BY010NV
Potential production (lb/acre):						
Favorable years		700	600	700	800	800
Normal years		500	450	500	600	600
Unfavorable years		300	250	300	450	400

614--WINTERMUTE-EASTWELL-ZERK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		WINTERMUTE	EASTWELL	ZERK	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	40-50	20-35	40-50	15-25	10-20
Sandberg bluegrass	POSE	---	2-8	---	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	2-5	2-5
needleandthread	STCO4	---	5-15	---	5-10	---
globemallow	SPHAE	1-5	---	---	---	2-5
scarlet globemallow	SPCO	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	---	---	---	20-35	---
black sagebrush	ARARN	---	25-35	---	---	---
bud sagebrush	ARSP5	---	---	5-15	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---
fourwing saltbush	ATCA2	---	---	---	---	15-30
shadscale	ATCO	25-35	2-5	---	2-5	---
spiny hopsage	GRSP	---	---	---	5-20	10-20
winterfat	EULAS	5-10	---	20-30	---	2-5
Range site number		028BY075NV	028BY011NV	028BY084NV	028BY052NV	028BY078NV
Potential production (lb/acre):						
Favorable years		700	600	900	800	600
Normal years		500	450	700	600	500
Unfavorable years		300	250	400	450	400

617--WINTERMUTE-ZERK-LORAY ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		WINTERMUTE	ZERK	LORAY	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	40-50	15-25	15-25	10-20	15-25
King desertgrass	BLKI	---	---	2-5	---	---	---
Sandberg bluegrass	POSE	---	---	---	---	2-5	---
bottlebrush squirreltail	SIHY	2-5	2-5	---	2-5	2-5	5-10
galleta	HIJA	---	---	2-8	---	---	---
needleandthread	STCO4	---	---	---	5-10	10-20	---
other perennial grasses	PPGG	---	---	---	---	---	2-5
globemallow	SPHAE	1-5	---	2-5	---	---	2-5
scarlet globemallow	SPCO	---	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	---	---	---	20-35	---	---
black sagebrush	ARARN	---	---	---	---	35-45	---
bud sagebrush	ARSP5	---	5-15	5-10	---	---	2-8
fourwing saltbush	ATCA2	---	---	---	---	---	2-5
gray molly kochia	KOAMV	---	---	2-5	---	---	---
shadscale	ATCO	25-35	---	40-50	2-5	2-5	---
spiny hopsage	GRSP	---	---	---	5-20	---	---
winterfat	EULA5	5-10	20-30	2-8	---	---	40-50
Range site number		028BY075NV	028BY084NV	028AY012NV	028BY052NV	028BY016NV	028BY013NV
Potential production (lb/acre):							
Favorable years		700	900	500	800	350	700
Normal years		500	700	300	600	225	500
Unfavorable years		300	400	200	450	100	350

620--ATLOW ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		ATLOW	ATLOW	Inclusion 1	Inclusion 2
Indian ricegrass	ORRY	20-30	20-30	---	15-25
Thurber needlegrass	STTH2	15-25	15-25	---	---
bottlebrush squirreltail	SIBY	---	---	---	2-5
needleandthread	STCO4	2-8	2-8	---	5-10
scarlet globemallow	SPCO	---	---	---	2-5
Wyoming big sagebrush	ARTRW	---	---	---	20-35
black sagebrush	ARARN	20-35	20-35	---	---
shadscale	ATCO	---	---	---	2-5
spiny hopsage	GRSP	---	---	---	5-20
Range site number		028BY089NV	028BY089NV	None	028BY052NV
Potential production (lb/acre):					
Favorable years		450	450		800
Normal years		300	300		600
Unfavorable years		150	150		450

631--EASTWELL-WINTERMUTE-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		EASTWELL	WINTERMUTE	OKAN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-35	40-50	15-25	20-35	20-35	2-10
Sandberg bluegrass	POSE	2-8	---	---	2-8	2-8	2-5
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	2-5	2-5	2-5
needleandthread	STCO4	5-15	---	5-10	5-15	5-15	2-10
globemallow	SPHAE	---	1-5	---	---	---	---
scarlet globemallow	SPCO	---	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	---	---	20-35	---	---	---
black sagebrush	ARARN	25-35	---	---	25-35	25-35	---
downy rabbitbrush	CHVIP4	2-5	---	---	2-5	2-5	---
pigmy sagebrush	ARPY2	---	---	---	---	---	50-70
shadscale	ATCO	2-5	25-35	2-5	2-5	2-5	---
spiny hopsage	GRSP	---	---	5-20	---	---	---
winterfat	EULA5	---	5-10	---	---	---	---
Range site number		028BY011NV	028BY075NV	028BY052NV	028BY011NV	028BY011NV	028BY040NV
Potential production (lb/acre):							
Favorable years		600	700	800	600	600	250
Normal years		450	500	600	450	450	175
Unfavorable years		250	300	450	250	250	100

632--EASTWELL-ZAFOD ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		EASTWELL	ZAFOD	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	20-30	20-30	40-50	5-10	20-35
Sandberg bluegrass	POSE	2-8	2-5	2-5	---	2-5	2-8
Scribner needlegrass	STSC2	---	---	---	---	2-5	---
bluebunch wheatgrass	AGSP	---	---	---	---	15-25	---
bottlebrush squirreltail	SIHY	2-5	2-8	2-8	2-5	---	2-5
needleandthread	STCO4	5-15	10-20	10-20	---	---	5-15
globemallow	SPAE	---	---	---	1-5	---	---
Douglas rabbitbrush	CHV18	---	---	---	---	2-5	---
Mexican cliffrose	COME5	---	---	---	---	1-10	---
Wyoming big sagebrush	ARTRW	---	25-35	25-35	---	---	---
black sagebrush	ARARN	25-35	---	---	---	30-40	25-35
downy rabbitbrush	CHV1P4	2-5	---	---	---	---	2-5
rabbitbrush	CHRY9	---	2-5	2-5	---	---	---
shadscale	ATCO	2-5	---	---	25-35	---	2-5
winterfat	EULA5	---	---	---	5-10	---	---
singleleaf pinyon	PIMO	---	---	---	---	10-15	---
Range site number		028BY011NV	028BY010NV	028BY010NV	028BY075NV	028BY090NV	028BY011NV
Potential production (lb/acre):							
Favorable years		600	800	800	700	400	600
Normal years		450	600	600	500	250	450
Unfavorable years		250	400	400	300	125	250

634--EASTWELL-SHABLISS-IZAR ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		EASTWELL	SHABLISS	IZAR	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-35	20-30	20-35	X	20-30
Sandberg bluegrass	POSE	2-8	2-5	2-8	---	2-5
basin wildrye	ELCI2	---	---	---	X	---
bluegrass	POA++	---	---	---	X	---
bottlebrush squirreltail	SIHY	2-5	2-8	2-5	X	2-8
needleandthread	STCO4	5-15	10-20	5-15	X	10-20
thickstem wildcabbage	CACR11	---	---	---	X	---
Utah juniper	JUOS	---	---	---	X	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	25-35
antelope bitterbrush	PUTR2	---	---	---	X	---
black sagebrush	ARARN	25-35	---	25-35	X	---
downy rabbitbrush	CHVIP4	2-5	---	2-5	---	---
rabbitbrush	CHRY99	---	2-5	---	---	2-5
shadscale	ATCO	2-5	---	2-5	---	---
Range site number		028BY011NV	028BY010NV	028BY011NV	028BY083NV	028BY010NV
Potential production (lb/acre):						
Favorable years		600	800	600	300	800
Normal years		450	600	450	200	600
Unfavorable years		250	400	250	125	400

636--EASTWELL-HUNDRAW-OKAN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		EASTWELL	HUNDRAW	OKAN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-35	X	15-25	20-30	10-20	20-35
Sandberg bluegrass	POSE	2-8	---	---	2-5	---	2-8
basin wildrye	ELCI2	---	X	---	---	---	---
bluebunch wheatgrass	AGSP	---	---	---	---	20-40	---
bluegrass	POA++	---	X	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	X	2-5	2-8	---	2-5
muttongrass	POFE	---	---	---	---	2-8	---
needleandthread	STCO4	5-15	X	5-10	10-20	2-5	5-15
scarlet globemallow	SPCO	---	---	2-5	---	---	---
thickstem wildcabbage	CACR11	---	X	---	---	---	---
Utah juniper	JUOS	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	20-35	25-35	---	---
antelope bitterbrush	PUTR2	---	X	---	---	---	---
black sagebrush	ARARN	25-35	X	---	---	20-30	25-35
downy rabbitbrush	CHVIP4	2-5	---	---	---	---	2-5
rabbitbrush	CHRY89	---	---	---	2-5	---	---
shadscale	ATCO	2-5	---	2-5	---	---	2-5
spiny hopsage	GRSP	---	---	5-20	---	---	---
winterfat	EULA5	---	---	---	---	2-5	---
Range site number		028BY011NV	028BY083NV	028BY052NV	028BY010NV	028BY006NV	028BY011NV
Potential production (lb/acre):							
Favorable years		600	300	800	800	800	600
Normal years		450	200	600	600	600	450
Unfavorable years		250	125	450	400	400	250

650--MIZPAH-ZERK-WINTERMUTE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		MIZPAH	ZERK	WINTERMUTE	Inclusion 1
Indian ricegrass	ORHY	2-10	40-50	40-50	20-35
Sandberg bluegrass	POSE	2-5	---	---	2-8
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	2-5
needleandthread	STCO4	2-10	---	---	5-15
globemallow	SPHA	---	---	1-5	---
black sagebrush	ARAR	---	---	---	25-35
bud sagebrush	ARSP5	---	5-15	---	---
downy rabbitbrush	CHVIP4	---	---	---	2-5
pigmy sagebrush	ARPY2	50-70	---	---	---
shadscale	ATCO	---	---	25-35	2-5
winterfat	EULAS	---	20-30	5-10	---
Range site number		028BY040NV	028BY084NV	028BY075NV	028BY011NV
Potential production (lb/acre):					
Favorable years		250	900	700	600
Normal years		175	700	500	450
Unfavorable years		100	400	300	250

671--IDWAY-MYSOL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		IDWAY	MYSOL	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-10	1-5	2-10	20-30
basin wildrye	ELCI2	10-20	---	10-20	---
bottlebrush squirreltail	SIHY	---	5-10	---	10-20
globemallow	SPHA2	---	---	---	2-4
big sagebrush	ARTR2	20-30	---	20-30	---
black greasewood	SAVE4	30-40	---	30-40	---
rubber rabbitbrush	CHNA2	2-5	---	2-5	---
shadscale	ATCO	---	85-90	---	45-50
Range site number		028BY028NV	028BY073NV	028BY028NV	028BY009NV
Potential production (lb/acre):					
Favorable years		800	400	800	500
Normal years		600	300	600	400
Unfavorable years		400	200	400	300

672--IDWAY-JAMES CANYON, DRAINED ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		IDWAY	JAMES CANYON	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-10	---	---	---
alkali sacaton	SPAI	---	20-30	5-15	15-40
basin wildrye	ELCI2	10-20	2-5	2-8	40-60
bluegrass	POA++	---	---	25-50	---
inland saltgrass	DISPS2	---	---	---	2-5
mat muhly	MURI	---	30-40	30-40	---
rush	JunCU	---	5-10	---	---
western wheatgrass	AGSM	---	---	2-8	2-5
aster	ASTER	---	2-5	---	---
Douglas rabbitbrush	CHVI8	---	1-5	---	---
basin big sagebrush	ARTRT	---	2-5	---	---
big sagebrush	ARTR2	20-30	---	---	---
black greasewood	SAVE4	30-40	1-5	---	5-15
rubber rabbitbrush	CHNA2	2-5	5-10	---	2-5
Range site number		028BY028NV	028BY031NV	028BY100NV	028BY004NV
Potential production (lb/acre):					
Favorable years		800	1200	1500	2200
Normal years		600	1000	1100	1500
Unfavorable years		400	400	700	800

680--SIMON-GRALEY-CHEN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		SIMON	GRALEY	CHEN	Inclusion 1	Inclusion 2
Idaho fescue	FEID	40-60	30-40	---	---	---
Indian ricegrass	ORRY	---	---	---	---	2-5
Nevada bluegrass	PONE3	2-8	2-5	---	---	---
Thurber needlegrass	STH2	---	---	---	15-30	---
basin wildrye	ELCI2	2-8	2-10	---	2-8	---
bluebunch wheatgrass	AGSP	5-15	15-30	20-30	20-40	10-20
bluegrass	POA++	---	---	2-10	2-5	2-8
needlegrass	STIPA	---	---	---	---	5-10
arrowleaf balsamroot	BASA3	---	2-5	---	---	---
crag aster	ASSC3	---	---	---	2-5	---
tapertip hawksbeard	CRAC2	---	2-5	---	2-5	---
antelope bitterbrush	PUTR2	---	5-10	2-5	5-10	30-45
basin big sagebrush	ARTRT	10-20	---	---	---	---
low sagebrush	ARAR8	---	---	25-35	---	---
mountain big sagebrush	ARVA2	---	10-20	---	15-25	5-15
Range site number		025XY027NV	025XY012NV	028BY037NV	028BY087NV	028BY046NV
Potential production (lb/acre):						
Favorable years		1300	1400	800	900	1200
Normal years		900	1000	600	700	900
Unfavorable years		500	700	400	450	700

691--TARNACH-WESPIL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		TARNACH	TARNACH	WESPIL	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	10-20	10-20	5-15	15-25	2-5	10-25
Sandberg bluegrass	POSE	---	---	2-5	---	---	---	---
Thurber needlegrass	STTH2	---	---	---	---	---	10-20	---
basin wildrye	ELCI2	---	---	---	2-5	---	---	---
bluebunch wheatgrass	AGSP	20-40	20-40	---	30-50	---	20-30	---
bluegrass	POA++	2-5	---	---	2-8	---	2-8	---
bottlebrush squirreltail	SIHY	---	---	2-5	---	2-5	---	2-5
galleta	HIJA	---	---	---	---	---	---	2-8
muttongrass	POFE	---	2-8	---	---	---	---	---
needleandthread	STCO4	2-5	2-5	10-20	2-5	5-10	---	2-10
goldenweed	HAPLO2	2-5	---	---	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	2-5	---	---
tapertip hawkbeard	CRAC2	2-5	---	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	20-35	---	---
big sagebrush	ARTR2	---	---	---	20-30	---	---	---
black sagebrush	ARARN	25-35	20-30	35-45	---	---	25-35	---
bud sagebrush	ARSP5	---	---	---	---	---	---	2-10
shadscale	ATCO	2-5	---	2-5	---	2-5	---	15-25
spiny hopsage	GRSP	---	---	---	---	5-20	---	---
winterfat	EULAS	2-5	2-5	---	---	---	---	2-5

Range site number	028BY008NV	028BY006NV	028BY016NV	028BY094NV	028BY052NV	028BY093NV	028AY003NV
Potential production (lb/acre):							
Favorable years	600	800	350	800	800	800	250
Normal years	400	600	225	600	600	600	150
Unfavorable years	200	400	100	400	450	400	75

692--TARNACH-UPATAD-WESFIL ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		TARNACH	UPATAD	WESFIL	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	---	---	---	X	---	---
Indian ricegrass	ORHY	10-20	2-5	10-20	---	X	20-30	20-35
Sandberg bluegrass	POSE	---	---	2-5	---	X	2-5	2-8
Thurber needlegrass	STTH2	---	10-20	---	15-30	X	---	---
basin wildrye	ELCI2	---	---	---	2-8	X	---	---
bluebunch wheatgrass	AGSP	20-40	20-30	---	20-40	X	---	---
bluegrass	POA++	2-5	2-8	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	---	---	2-5	---	X	2-8	2-5
needleandthread	STCO4	2-5	---	10-20	---	---	10-20	5-15
arrowleaf balsamroot	BASA3	---	---	---	---	X	---	---
crag aster	ASSC3	---	---	---	2-5	---	---	---
goldenweed	HAPLO2	2-5	---	---	---	---	---	---
tapertip hawksbeard	CRAC2	2-5	---	---	2-5	X	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	25-35	---
antelope bitterbrush	PUTR2	---	---	---	5-10	X	---	---
black sagebrush	ARARN	25-35	25-35	35-45	---	---	---	25-35
downy rabbitbrush	CHVIP4	---	---	---	---	---	---	2-5
ephedra	EPHED	---	---	---	---	X	---	---
mountain big sagebrush	ARVA2	---	---	---	15-25	X	---	---
rabbitbrush	CHRY9	---	---	---	---	---	2-5	---
serviceberry	AMELA	---	---	---	---	X	---	---
shadscale	ATCO	2-5	---	2-5	---	---	---	2-5
winterfat	EULA5	2-5	---	---	---	---	---	---
Utah juniper	JUOS	---	---	---	---	X	---	---
singleleaf pinyon	PIMO	---	---	---	---	X	---	---
Range site number		028BY008NV	028BY093NV	028BY016NV	028BY087NV	028BY062NV	028BY010NV	028BY011NV
Potential production (lb/acre):								
Favorable years		600	800	350	900	700	800	600
Normal years		400	600	225	700	500	600	450
Unfavorable years		200	400	100	450	300	400	250

700--SHABLISS-TULASE-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		SHABLISS	TULASE	LINOYER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	5-10	15-25	15-25	40-50	10-20	20-35
Sandberg bluegrass	POSE	2-5	---	---	---	---	---	2-8
basin wildrye	ELCI2	---	10-20	---	---	---	---	---
bottlebrush squirreltail	SIHY	2-8	---	5-10	2-5	2-5	5-15	2-5
needleandthread	STCO4	10-20	---	---	5-10	---	---	5-15
other perennial grasses	PPGG	---	---	2-5	---	---	---	---
thickspike wheatgrass	AGDA	---	5-10	---	---	---	---	---
globemallow	SPAE	---	---	2-5	---	---	---	---
scarlet globemallow	SFCO	---	---	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	25-35	25-35	---	20-35	---	---	---
black sagebrush	ARARN	---	---	---	---	---	---	25-35
bud sagebrush	ARSP5	---	---	2-8	---	5-15	10-25	---
downy rabbitbrush	CHVIP4	---	---	---	---	---	---	2-5
fourwing saltbush	ATCA2	---	---	2-5	---	---	---	---
rabbitbrush	CHRY89	2-5	---	---	---	---	---	---
shadscale	ATCO	---	---	---	2-5	---	40-50	2-5
spiny hopsage	GRSP	---	---	---	5-20	---	---	---
winterfat	EULA5	---	---	40-50	---	20-30	---	---
Range site number		028BY010NV	028BY045NV	028BY013NV	028BY052NV	028BY084NV	028BY017NV	028BY011NV
Potential production (lb/acre):								
Favorable years		800	1000	700	800	900	400	600
Normal years		600	800	500	600	700	300	450
Unfavorable years		400	600	350	450	400	200	250

720--MYSOL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		MYSOL	MYSOL	Inclusion 1	Inclusion 2
Indian ricegrass	OREY	2-5	1-5	2-5	2-10
basin wildrye	ELCI2	---	---	---	10-20
bottlebrush squirreltail	SIHY	2-5	5-10	2-5	---
big sagebrush	ARTR2	---	---	---	20-30
black greasewood	SAVE4	20-30	---	20-30	30-40
bud sagebrush	ARSP5	2-10	---	2-10	---
rubber rabbitbrush	CHNA2	---	---	---	2-5
shadscale	ATCO	20-50	85-90	20-50	---
Range site number		028BY074NV	028BY073NV	028BY074NV	028BY028NV
Potential production (lb/acre):					
Favorable years		600	400	600	800
Normal years		400	300	400	600
Unfavorable years		200	200	200	400

730--IDWAY-KAWICH-MYSOL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		IDWAY	KAWICH	MYSOL	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-10	5-10	2-5	1-5	---
alkali sacaton	SPAI	---	---	---	---	15-40
basin wildrye	ELCI2	10-20	2-5	---	---	40-60
bottlebrush squirreltail	SIHY	---	---	2-5	5-10	---
inland saltgrass	DISPS2	---	---	---	---	2-5
thickspike wheatgrass	AGDA	---	2-5	---	---	---
western wheatgrass	AGSM	---	---	---	---	2-5
big sagebrush	ARTR2	20-30	---	---	---	---
black greasewood	SAVE4	30-40	40-60	20-30	---	5-15
bud sagebrush	ARSP5	---	---	2-10	---	---
fourwing saltbush	ATCA2	---	5-10	---	---	---
rubber rabbitbrush	CHNA2	2-5	---	---	---	2-5
shadscale	ATCO	---	5-10	20-50	85-90	---
Range site number		028BY028NV	028BY021NV	028BY074NV	028BY073NV	028BY004NV
Potential production (lb/acre):						
Favorable years		800	400	600	400	2200
Normal years		600	300	400	300	1500
Unfavorable years		400	200	200	200	800

733--IDWAY-IDWAY, MOIST-MYSOL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		IDWAY	IDWAY	MYSOL	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-10	20-30	2-5	20-30	---	---	---
Sandberg bluegrass	POSE	---	2-5	---	---	---	5-10	---
alkali sacaton	SPAI	---	---	---	---	5-10	---	---
basin wildrye	ELCI2	10-20	---	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	---	2-8	2-5	10-20	---	5-15	---
inland saltgrass	DISP82	---	---	---	---	2-8	---	---
needleandthread	STCO4	---	10-20	---	---	---	---	---
globemallow	SPHA8	---	---	---	2-4	---	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	---	60-70	---
big sagebrush	ARTR2	20-30	---	---	---	---	---	---
black greasewood	SAVE4	30-40	---	20-30	---	60-75	---	---
bud sagebrush	ARSP5	---	---	2-10	---	---	---	---
rabbitbrush	CHRY9	---	2-5	---	---	---	---	---
rubber rabbitbrush	CHNA2	2-5	---	---	---	2-5	---	---
shadscale	ATCO	---	---	20-50	45-50	2-5	---	---
Range site number		028BY028NV	028BY010NV	028BY074NV	028BY009NV	028BY020NV	028BY056NV	None
Potential production (lb/acre):								
Favorable years		800	800	600	500	500	450	
Normal years		600	600	400	400	300	325	
Unfavorable years		400	400	200	300	150	150	

740--UPATAD-PIOCHE-TARNACH ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		UPATAD	PIOCHE	TARNACH	Inclusion 1	Inclusion 2	Inclusion 3
Canby bluegrass	POCA	---	X	---	---	---	---
Indian ricegrass	ORHY	X	X	10-20	10-20	10-20	---
Sandberg bluegrass	POSE	---	X	---	---	2-5	---
Thurber needlegrass	STTH2	X	X	---	---	---	---
basin wildrye	ELCI2	X	X	---	---	---	---
bluebunch wheatgrass	AGSP	X	X	20-40	20-40	---	---
bluegrass	POA++	X	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	X	X	---	---	2-5	---
muttongrass	POPE	---	---	---	2-8	---	---
needleandthread	STCO4	---	---	2-5	2-5	10-20	---
arrowleaf balsamroot	BASA3	X	X	---	---	---	---
goldenweed	HAPLO2	---	---	2-5	---	---	---
tapertip hawksbeard	CRAC2	X	X	2-5	---	---	---
Stansbury cliffrose	COMES	X	---	---	---	---	---
antelope bitterbrush	PUTR2	X	X	---	---	---	---
black sagebrush	ARARN	X	---	25-35	20-30	35-45	---
curlleaf mountainmahogany	CELE3	X	---	---	---	---	---
ephedra	EPHED	---	X	---	---	---	---
mountain big sagebrush	ARVA2	---	X	---	---	---	---
serviceberry	AMELA	X	X	---	---	---	---
shadscale	ATCO	---	---	2-5	---	2-5	---
winterfat	EULA5	---	---	2-5	2-5	---	---
Utah juniper	JUOS	X	X	---	---	---	---
singleleaf pinyon	PIMO	X	X	---	---	---	---
Range site number		028BY060NV	028BY062NV	028BY008NV	028BY006NV	028BY016NV	None
Potential production (lb/acre):							
Favorable years		500	700	600	800	350	
Normal years		300	500	400	600	225	
Unfavorable years		250	300	200	400	100	

760--PLAYAS, 0 TO 1 PERCENT SLOPES

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions	
		Soil name or Inclusion number--	
		PLAYAS	Inclusion 1
alkali sacaton	SPAI	---	5-10
basin wildrye	ELCI2	---	2-5
inland saltgrass	DISPS2	---	2-8
black greasewood	SAVE4	---	60-75
rubber rabbitbrush	CHNA2	---	2-5
shadscale	ATCO	---	2-5
Range site number		None	028BY020NV
Potential production (lb/acre):			
Favorable years			500
Normal years			300
Unfavorable years			150

761--UMBERLAND ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		UMBERLAND	UMBERLAND	Inclusion 1	Inclusion 2
alkali sacaton	SPAI	---	15-40	---	15-40
basin wildrye	ELCI2	---	40-60	---	40-60
bluegrass	POA++	T-20	---	---	---
foxtail barley	HOJU	1-20	---	---	---
inland saltgrass	DISPS2	---	2-5	---	2-5
mat muhly	MURI	T-8	---	---	---
rush	JunCU	T-20	---	---	---
sedge	CAREX	T-20	---	---	---
western wheatgrass	AGSM	---	2-5	---	2-5
cinquefoil	POTEN	T-10	---	---	---
povertyweed	IVAX	T-20	---	---	---
black greasewood	SAVE4	---	5-15	---	5-15
rubber rabbitbrush	CHNA2	---	2-5	---	2-5
Range site number		028BY098NV	028BY004NV	None	028BY004NV
Potential production (lb/acre):					
Favorable years		1500	2200		2200
Normal years		400	1500		1500
Unfavorable years		0	800		800

762--UMBERLAND-PLAYAS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		UMBERLAND	PLAYAS	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	---	2-5	---
alkali sacaton	SPAI	---	---	15-40	---	---
basin wildrye	ELCI2	---	---	40-60	---	---
bluegrass	POA++	T-20	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	2-5	---
foxtail barley	HOJU	1-20	---	---	---	2-5
inland saltgrass	DISPS2	---	---	2-5	---	2-5
mat muhly	MURI	T-8	---	---	---	---
rush	JunCU	T-20	---	---	---	---
sedge	CAREX	T-20	---	---	---	---
western wheatgrass	AGSM	---	---	2-5	---	50-70
cinquefoil	POTEN	T-10	---	---	---	---
povertyweed	IVAX	T-20	---	---	---	---
black greasewood	SAVE4	---	---	5-15	20-30	2-5
bud sagebrush	ARSP5	---	---	---	2-10	---
fourwing saltbush	ATCA2	---	---	---	---	5-15
rubber rabbitbrush	CHNA2	---	---	2-5	---	---
shadscale	ATCO	---	---	---	20-50	---
Range site number		028BY098NV	None	028BY004NV	028BY074NV	028BY023NV
Potential production (lb/acre):						
Favorable years		1500		2200	600	1400
Normal years		400		1500	400	1000
Unfavorable years		0		800	200	700

763--EQUIS-UMBERLAND-DUFFER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		EQUIS	UMBERLAND	DUFFER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	---	---	2-8	---	---	---	---
alkali cordgrass	SPGR	---	---	10-15	---	---	---	---
alkali sacaton	SPAI	15-40	5-10	40-50	15-40	---	2-5	5-15
alkaligrass	PUCCI	---	---	2-5	---	---	---	---
basin wildrye	ELCI2	40-60	2-5	---	40-60	10-20	40-60	2-8
bluegrass	POA++	---	---	2-8	---	---	2-5	25-50
bottlebrush squirreltail	SIRY	---	---	---	---	2-5	2-5	---
inland saltgrass	DISPS2	2-5	2-8	2-5	2-5	2-10	---	---
mat muhly	MURI	---	---	---	---	---	---	30-40
sedge	CAREX	---	---	5-10	---	---	---	---
western wheatgrass	AGSM	2-5	---	---	2-5	---	5-10	2-8
basin big sagebrush	ARTRT	---	---	---	---	---	5-15	---
black greasewood	SAVE4	5-15	60-75	---	5-15	50-60	2-5	---
rubber rabbitbrush	CHNA2	2-5	2-5	---	2-5	---	2-5	---
shadscale	ATCO	---	2-5	---	---	---	---	---

Range site number	028BY004NV	028BY020NV	028BY002NV	028BY004NV	028BY069NV	028BY041NV	028BY100NV
Potential production (lb/acre):							
Favorable years	2200	500	1500	2200	800	1800	1500
Normal years	1500	300	1000	1500	600	1500	1100
Unfavorable years	800	150	700	800	400	1100	700

764--UMBERLAND-RUBYLAKE-ORUPA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		UMBERLAND	RUBYLAKE	ORUPA	Inclusion 1
Baltic rush	JUBA	---	2-5	---	---
alkali bluegrass	POJU	---	2-10	---	---
alkali muhly	MUAS	---	2-5	---	---
alkali sacaton	SPAI	15-40	2-10	5-10	---
basin wildrye	ELCI2	40-60	---	2-5	---
inland saltgrass	DISPS2	2-5	5-15	2-8	---
sedge	CAREX	---	10-20	---	---
western wheatgrass	AGSM	2-5	35-50	---	---
wildrye	ELYMU	---	5-15	---	---
black greasewood	SAVE4	5-15	---	60-75	---
rubber rabbitbrush	CHNA2	2-5	---	2-5	---
shadscale	ATCO	---	---	2-5	---
Range site number		028BY004NV	028BY012NV	028BY020NV	None
Potential production (lb/acre):					
Favorable years		2200	2000	500	
Normal years		1500	1500	300	
Unfavorable years		800	1000	150	

765--UMBERLAND-WENDANE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		UMBERLAND	UMBERLAND	WENDANE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	---	---	---	2-8	---	---	---
alkali cordgrass	SPGR	---	---	---	10-15	---	---	---
alkali sacaton	SPAI	---	5-10	15-40	40-50	---	---	5-10
alkaligrass	PUCCI	---	---	---	2-5	---	---	---
basin wildrye	ELCI2	---	2-5	40-60	---	---	---	2-5
bluegrass	POA++	T-20	---	---	2-8	---	---	---
foxtail barley	HOJU	1-20	---	---	---	2-5	---	---
inland saltgrass	DISPS2	---	2-8	2-5	2-5	2-5	---	2-8
mat muhly	MURI	T-8	---	---	---	---	---	---
rush	JunCU	T-20	---	---	---	---	---	---
sedge	CAREX	T-20	---	---	5-10	---	---	---
western wheatgrass	AGSM	---	---	2-5	---	50-70	---	---
cinquefoil	POTEN	T-10	---	---	---	---	---	---
povertyweed	IVAX	T-20	---	---	---	---	---	---
black greasewood	SAVE4	---	60-75	5-15	---	2-5	---	60-75
fourwing saltbush	ATCA2	---	---	---	---	5-15	---	---
rubber rabbitbrush	CHNA2	---	2-5	2-5	---	---	---	2-5
shadscale	ATCO	---	2-5	---	---	---	---	2-5
Range site number		028BY098NV	028BY020NV	028BY004NV	028BY002NV	028BY023NV	None	028BY020NV
Potential production (lb/acre):								
Favorable years		1500	500	2200	1500	1400		500
Normal years		400	300	1500	1000	1000		300
Unfavorable years		0	150	800	700	700		150

767--UMBERLAND-ORUPA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		UMBERLAND	UMBERLAND	ORUPA	Inclusion 1	Inclusion 2
alkali sacaton	SPAI	5-10	---	5-10	15-40	---
basin wildrye	ELCI2	2-5	---	2-5	40-60	---
bluegrass	POA++	---	T-20	---	---	---
foxtail barley	HOJU	---	1-20	---	---	---
inland saltgrass	DISPS2	2-8	---	2-8	2-5	---
mat muhly	MURI	---	T-8	---	---	---
rush	JunCU	---	T-20	---	---	---
sedge	CAREX	---	T-20	---	---	---
western wheatgrass	AGSM	---	---	---	2-5	---
cinquefoil	POTEN	---	T-10	---	---	---
povertyweed	IVAX	---	T-20	---	---	---
black greasewood	SAVE4	60-75	---	60-75	5-15	---
rubber rabbitbrush	CHNA2	2-5	---	2-5	2-5	---
shadscale	ATCO	2-5	---	2-5	---	---
Range site number		028BY020NV	028BY098NV	028BY020NV	028BY004NV	None
Potential production (lb/acre):						
Favorable years		500	1500	500	2200	
Normal years		300	400	300	1500	
Unfavorable years		150	0	150	800	

781--MYSOL-BENIN-WENDANE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		MYSOL	BENIN	WENDANE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	---	---	2-10	---	2-8	1-5
alkali sacaton	SPAI	---	5-10	15-40	---	---	---	---
basin wildrye	ELCI2	---	2-5	40-60	10-20	---	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	---	---	2-5	5-10
inland saltgrass	DISPS2	---	2-8	2-5	---	---	---	---
western wheatgrass	AGSM	---	---	2-5	---	---	5-15	---
big sagebrush	ARTR2	---	---	---	20-30	---	---	---
black greasewood	SAVE4	20-30	60-75	5-15	30-40	---	---	---
bud sagebrush	ARSP5	2-10	---	---	---	---	---	---
rubber rabbitbrush	CHNA2	---	2-5	2-5	2-5	---	---	---
shadscale	ATCO	20-50	2-5	---	---	---	2-5	85-90
sickle saltbush	ATFA	---	---	---	---	---	55-65	---
winterfat	EULA5	---	---	---	---	---	5-15	---
Range site number		028BY074NV	028BY020NV	028BY004NV	028BY028NV	None	028BY047NV	028BY073NV
Potential production (lb/acre):								
Favorable years		600	500	2200	800		500	400
Normal years		400	300	1500	600		350	300
Unfavorable years		200	150	800	400		200	200

800--MAZUMA-TOANO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		MAZUMA	TOANO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	1-5	2-8	1-5	15-25	5-10	40-50
basin wildrye	ELCI2	---	---	---	---	10-20	---
bottlebrush squirreltail	SIHY	5-10	2-5	5-10	5-10	---	2-5
other perennial grasses	PPGG	---	---	---	2-5	---	---
thickspike wheatgrass	AGDA	---	---	---	---	5-10	---
western wheatgrass	AGSM	---	5-15	---	---	---	---
globemallow	SPHAE	---	---	---	2-5	---	1-5
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---
bud sagebrush	ARSP5	---	---	---	2-8	---	---
fourwing saltbush	ATCA2	---	---	---	2-5	---	---
shadscale	ATCO	85-90	2-5	85-90	---	---	25-35
sickle saltbush	ATFA	---	55-65	---	---	---	---
winterfat	EULA5	---	5-15	---	40-50	---	5-10
Range site number		028BY073NV	028BY047NV	028BY073NV	028BY013NV	028BY045NV	028BY075NV
Potential production (lb/acre):							
Favorable years		400	500	400	700	1000	700
Normal years		300	350	300	500	800	500
Unfavorable years		200	200	200	350	600	300

801--MAZUMA-ZERK-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		MAZUMA	ZERK	OKAN	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	1-5	40-50	15-25	2-8	---
bottlebrush squirreltail	SIHY	5-10	2-5	2-5	2-5	5-10
needleandthread	STCO4	---	---	5-10	---	---
western wheatgrass	AGSM	---	---	---	5-15	2-5
globemallow	SPHA	---	1-5	---	---	---
scarlet globemallow	SPCO	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	---	---	20-35	---	---
black greasewood	SAVE4	---	---	---	---	15-25
shadscale	ATCO	85-90	25-35	2-5	2-5	2-5
sickle saltbush	ATFA	---	---	---	55-65	50-60
spiny hopsage	GRSP	---	---	5-20	---	---
winterfat	EULAS	---	5-10	---	5-15	---
Range site number		028BY073NV	028BY075NV	028BY052NV	028BY047NV	028BY097NV
Potential production (lb/acre):						
Favorable years		400	700	800	500	500
Normal years		300	500	600	350	350
Unfavorable years		200	300	450	200	200

804--MAZUMA-KAWICH-PLAYAS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		MAZUMA	KAWICH	PLAYAS	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	5-10	---	---	---	---	---
alkali sacaton	SPAI	---	---	---	---	---	---	5-10
basin wildrye	ELCI2	---	2-5	---	---	---	10-20	2-5
bottlebrush squirreltail	SIRY	2-5	---	---	---	---	2-5	---
inland saltgrass	DISPS2	---	---	---	75-95	20-30	2-10	2-8
thickspike wheatgrass	AGDA	---	2-5	---	---	---	---	---
black greasewood	SAVE4	20-30	40-60	---	---	---	50-60	60-75
bud sagebrush	ARSP5	2-10	---	---	---	---	---	---
fourwing saltbush	ATCA2	---	5-10	---	---	---	---	---
iodinebush	ALOC2	---	---	---	---	50-60	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	---	2-5
shadscale	ATCO	20-50	5-10	---	---	---	---	2-5
Range site number		028BY074NV	028BY021NV	None	028BY050NV	028AY009NV	028BY069NV	028BY020NV
Potential production (lb/acre):								
Favorable years		600	400		1200	150	800	500
Normal years		400	300		1000	100	600	300
Unfavorable years		200	200		800	75	400	150

807--MAZUMA-KUNZLER-ZERK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		MAZUMA	KUNZLER	ZERK	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	1-5	---	40-50	20-30	10-20	40-50
Sandberg bluegrass	POSE	---	5-10	---	2-5	---	---
bottlebrush squirreltail	SIHY	5-10	5-15	2-5	2-8	2-5	2-5
needleandthread	STCO4	---	---	---	10-20	---	---
globemallow	SPHA	---	---	1-5	---	2-5	---
Wyoming big sagebrush	ARTRW	---	60-70	---	25-35	---	---
bud sagebrush	ARSP5	---	---	---	---	---	5-15
fourwing saltbush	ATCA2	---	---	---	---	15-30	---
rabbitbrush	CHRY9	---	---	---	2-5	---	---
shadscale	ATCO	85-90	---	25-35	---	---	---
spiny hopsage	GRSP	---	---	---	---	10-20	---
winterfat	EULA5	---	---	5-10	---	2-5	20-30
Range site number		028BY073NV	028BY056NV	028BY075NV	028BY010NV	028BY078NV	028BY084NV
Potential production (lb/acre):							
Favorable years		400	450	700	800	600	900
Normal years		300	325	500	600	500	700
Unfavorable years		200	150	300	400	400	400

823--KUNZLER-PYRAT-BLIMO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		KUNZLER	PYRAT	BLIMO	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-10	20-30	20-30	10-20	2-5
Sandberg bluegrass	POSE	---	2-5	2-5	---	---
basin wildrye	ELCI2	10-20	---	---	---	---
bottlebrush squirreltail	SIHY	---	2-8	2-8	5-15	2-5
needleandthread	STCO4	---	10-20	10-20	---	---
Wyoming big sagebrush	ARTRW	---	25-35	25-35	---	---
big sagebrush	ARTR2	20-30	---	---	---	---
black greasewood	SAVE4	30-40	---	---	---	20-30
bud sagebrush	ARSP5	---	---	---	10-25	2-10
rabbitbrush	CHRS9	---	2-5	2-5	---	---
rubber rabbitbrush	CHNA2	2-5	---	---	---	---
shadscale	ATCO	---	---	---	40-50	20-50
Range site number		028BY028NV	028BY010NV	028BY010NV	028BY017NV	028BY074NV
Potential production (lb/acre):						
Favorable years		800	800	800	400	600
Normal years		600	600	600	300	400
Unfavorable years		400	400	400	200	200

824--KUNZLER-KATELANA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		KUNZLER	KATELANA	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-10	2-5	---	2-5
alkali sacaton	SPAI	---	---	15-40	---
basin wildrye	ELCI2	10-20	---	40-60	---
bottlebrush squirreltail	SIHY	---	2-5	---	2-5
inland saltgrass	DISPS2	---	---	2-5	---
western wheatgrass	AGSM	---	---	2-5	---
big sagebrush	ARTR2	20-30	---	---	---
black greasewood	SAVE4	30-40	20-30	5-15	20-30
bud sagebrush	ARSP5	---	2-10	---	2-10
rubber rabbitbrush	CHNA2	2-5	---	2-5	---
shadscale	ATCO	---	20-50	---	20-50
Range site number		028BY028NV	028BY074NV	028BY004NV	028BY074NV
Potential production (lb/acre):					
Favorable years		800	600	2200	600
Normal years		600	400	1500	400
Unfavorable years		400	200	800	200

827--KUNZLER-JAMES CANYON ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		KUNZLER	JAMES CANYON	JAMES CANYON	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	2-10	---	---	2-10	---	2-10
alkali sacaton	SPAI	---	5-15	20-30	---	5-10	---
basin wildrye	ELCI2	10-20	2-8	2-5	10-20	2-5	10-20
bluegrass	POA++	---	25-50	---	---	---	---
inland saltgrass	DISPS2	---	---	---	---	2-8	---
mat muhly	MURI	---	30-40	30-40	---	---	---
rush	JunCU	---	---	5-10	---	---	---
western wheatgrass	AGSM	---	2-8	---	---	---	---
aster	ASTER	---	---	2-5	---	---	---
Douglas rabbitbrush	CHVI8	---	---	1-5	---	---	---
basin big sagebrush	ARTRT	---	---	2-5	---	---	---
big sagebrush	ARTR2	20-30	---	---	20-30	---	20-30
black greasewood	SAVE4	30-40	---	1-5	30-40	60-75	30-40
rubber rabbitbrush	CHNA2	2-5	---	5-10	2-5	2-5	2-5
shadscale	ATCO	---	---	---	---	2-5	---
Range site number		028BY028NV	028BY100NV	028BY031NV	028BY028NV	028BY020NV	028BY028NV
Potential production (lb/acre):							
Favorable years		800	1500	1200	800	500	800
Normal years		600	1100	1000	600	300	600
Unfavorable years		400	700	400	400	150	400

828--KUNZLER-PYRAT-WENDANE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		KUNZLER	PYRAT	WENDANE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	---	---	---	---	---	2-8	---
Indian ricegrass	ORHY	2-10	20-30	---	---	20-35	---	20-30
Sandberg bluegrass	POSE	---	2-5	---	---	2-8	---	2-5
alkali cordgrass	SPGR	---	---	---	---	---	10-15	---
alkali sacaton	SPAI	---	---	15-40	---	---	40-50	---
alkaligrass	PUCCI	---	---	---	---	---	2-5	---
basin wildrye	ELCI2	10-20	---	40-60	2-5	---	---	---
bluegrass	POA++	---	---	---	25-40	---	---	2-8
bottlebrush squirreltail	SIHY	---	2-8	---	---	2-5	---	2-8
inland saltgrass	DISPS2	---	---	2-5	---	---	2-5	---
mat muhly	MURI	---	---	---	2-5	---	---	---
needleandthread	STCO4	---	10-20	---	---	5-15	---	10-20
rush	JunCU	---	---	---	---	5-15	---	---
sedge	CAREX	---	---	---	20-30	---	5-10	---
western wheatgrass	AGSM	---	---	2-5	---	---	---	---
cinquefoil	POTEN	---	---	---	2-5	---	---	---
groundsel	SENEC	---	---	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	---	---	25-35
big sagebrush	ARTR2	20-30	---	---	---	---	---	---
black greasewood	SAVE4	30-40	---	5-15	---	---	---	---
black sagebrush	ARARN	---	---	---	---	25-35	---	---
downy rabbitbrush	CHVIP4	---	---	---	---	2-5	---	---
rabbitbrush	CHRY9	---	2-5	---	---	---	---	2-5
rubber rabbitbrush	CHNA2	2-5	---	2-5	---	---	---	---
shadscale	ATCO	---	---	---	---	2-5	---	---
Range site number		028BY028NV	028BY010NV	028BY004NV	028BY001NV	028BY011NV	028BY002NV	028BY010NV
Potential production (lb/acre):								
Favorable years		800	800	2200	4000	600	1500	800
Normal years		600	600	1500	2000	450	1000	600
Unfavorable years		400	400	800	1200	250	700	400

830--PHARO-KZIN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PHARO	KZIN	PHARO	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	10-20	X	10-20	2-5	10-20
Sandberg bluegrass	POSE	---	---	---	---	2-5
Thurber needlegrass	STTH2	---	X	---	30-40	---
basin wildrye	ELCI2	---	X	---	---	---
bluebunch wheatgrass	AGSP	20-40	X	20-40	15-30	---
bluegrass	POA++	---	X	---	2-8	---
bottlebrush squirreltail	SIHY	---	X	---	---	2-5
muttongrass	POFE	2-8	---	2-8	---	---
needleandthread	STCO4	2-5	---	2-5	2-8	10-20
arrowleaf balsamroot	BASA3	---	X	---	2-5	---
tapertip hawkbeard	CRAC2	---	X	---	2-5	---
Stansbury cliffrose	COMES	---	X	---	---	---
antelope bitterbrush	PUTR2	---	X	---	2-10	---
big sagebrush	ARTR2	---	---	---	15-25	---
black sagebrush	ARARN	20-30	X	20-30	---	35-45
curlleaf mountainmahogany	CELE3	---	X	---	---	---
serviceberry	AMELA	---	X	---	---	---
shadscale	ATCO	---	---	---	---	2-5
winterfat	EULA5	2-5	---	2-5	---	---
Utah juniper	JUOS	---	X	---	---	---
singleleaf pinyon	PIMO	---	X	---	---	---
Range site number		028BY006NV	028BY060NV	028BY006NV	028BY007NV	028BY016NV
Potential production (lb/acre):						
Favorable years		800	500	800	1000	350
Normal years		600	300	600	800	225
Unfavorable years		400	250	400	600	100

842--KATELANA-TIMPIE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		KATELANA	TIMPIE	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	1-5	5-15	2-5	20-30
bottlebrush squirreltail	SIEY	5-10	2-5	2-5	10-20
wheatgrass	AGROP2	---	20-30	---	---
globemallow	SPHAE	---	---	---	2-4
black greasewood	SAVE4	---	---	20-30	---
bud sagebrush	ARSP5	---	---	2-10	---
shadscale	ATCO	85-90	---	20-50	45-50
winterfat	EULA5	---	40-50	---	---
Range site number		028BY073NV	028BY071NV	028BY074NV	028BY009NV
Potential production (lb/acre):					
Favorable years		400	600	600	500
Normal years		300	400	400	400
Unfavorable years		200	200	200	300

843--KATELANA-KAWICH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		KATELANA	KAWICH	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	1-5	5-10	---	2-5
Sandberg bluegrass	POSE	---	---	5-10	---
basin wildrye	ELCI2	---	2-5	---	---
bottlebrush squirreltail	SIHY	5-10	---	5-15	2-5
thickspike wheatgrass	AGDA	---	2-5	---	---
Wyoming big sagebrush	ARTRW	---	---	60-70	---
black greasewood	SAVE4	---	40-60	---	20-30
bud sagebrush	ARSP5	---	---	---	2-10
fourwing saltbush	ATCA2	---	5-10	---	---
shadscale	ATCO	85-90	5-10	---	20-50
Range site number		028BY073NV	028BY021NV	028BY056NV	028BY074NV
Potential production (lb/acre):					
Favorable years		400	400	450	600
Normal years		300	300	325	400
Unfavorable years		200	200	150	200

845--KATELANA-RAGTOWN-TIMPIE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		KATELANA	RAGTOWN	TIMPIE	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	1-5	2-8	5-15	20-30	2-5
bottlebrush squirreltail	SIHY	5-10	2-5	2-5	10-20	2-5
western wheatgrass	AGSM	---	5-15	---	---	---
wheatgrass	AGROP2	---	---	20-30	---	---
globemallow	SPHAE	---	---	---	2-4	---
black greasewood	SAVE4	---	---	---	---	20-30
bud sagebrush	ARSP5	---	---	---	---	2-10
shadscale	ATCO	85-90	2-5	---	45-50	20-50
sickle saltbush	ATFA	---	55-65	---	---	---
winterfat	EULAS	---	5-15	40-50	---	---
Range site number		028BY073NV	028BY047NV	028BY071NV	028BY009NV	028BY074NV
Potential production (lb/acre):						
Favorable years		400	500	600	500	600
Normal years		300	350	400	400	400
Unfavorable years		200	200	200	300	200

847--MAZUMA-BLIMO-WINTERMUTE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		MAZUMA	BLIMO	WINTERMUTE	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	1-5	20-30	40-50	2-8	15-25	10-20
Sandberg bluegrass	POSE	---	2-5	---	---	---	---
bottlebrush squirreltail	SIHY	5-10	2-8	2-5	2-5	5-10	5-15
needleandthread	STCO4	---	10-20	---	---	---	---
other perennial grasses	PPGG	---	---	---	---	2-5	---
western wheatgrass	AGSM	---	---	---	5-15	---	---
globemallow	SPHAE	---	---	1-5	---	2-5	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	---	---
bud sagebrush	ARSP5	---	---	---	---	2-8	10-25
fourwing saltbush	ATCA2	---	---	---	---	2-5	---
rabbitbrush	CHRY9	---	2-5	---	---	---	---
shadscale	ATCO	85-90	---	25-35	2-5	---	40-50
sickle saltbush	ATFA	---	---	---	55-65	---	---
winterfat	EULA5	---	---	5-10	5-15	40-50	---
Range site number		028BY073NV	028BY010NV	028BY075NV	028BY047NV	028BY013NV	028BY017NV
Potential production (lb/acre):							
Favorable years		400	800	700	500	700	400
Normal years		300	600	500	350	500	300
Unfavorable years		200	400	300	200	350	200

850--PALINOR-WINTERMUTE-OKAN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PALINOR	WINTERMUTE	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	40-50	15-25	20-35	40-50	X	10-20
Sandberg bluegrass	POSE	2-8	---	---	2-8	---	---	---
Thurber needlegrass	STTH2	---	---	---	---	---	X	---
basin wildrye	ELCI2	---	---	---	---	---	X	---
bluebunch wheatgrass	AGSP	---	---	---	---	---	X	20-40
bluegrass	POA++	---	---	---	---	---	X	2-5
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	2-5	2-5	X	---
needleandthread	STCO4	5-15	---	5-10	5-15	---	---	2-5
arrowleaf balsamroot	BASA3	---	---	---	---	---	X	---
globemallow	SPHAE	---	1-5	---	---	---	---	---
goldenweed	HAPLO2	---	---	---	---	---	---	2-5
scarlet globemallow	SPCO	---	---	2-5	---	---	---	---
tapertip hawksbeard	CRAC2	---	---	---	---	---	X	2-5
Stansbury cliffrose	COMES	---	---	---	---	---	X	---
Wyoming big sagebrush	ARTRW	---	---	20-35	---	---	---	---
antelope bitterbrush	PUTR2	---	---	---	---	---	X	---
black sagebrush	ARARN	25-35	---	---	25-35	---	X	25-35
bud sagebrush	ARSP5	---	---	---	---	5-15	---	---
curleaf mountainmahogany	CELE3	---	---	---	---	---	X	---
downy rabbitbrush	CHVIP4	2-5	---	---	2-5	---	---	---
serviceberry	AMELA	---	---	---	---	---	X	---
shadscale	ATCO	2-5	25-35	2-5	2-5	---	---	2-5
spiny hopsage	GRSP	---	---	5-20	---	---	---	---
winterfat	EULA5	---	5-10	---	---	20-30	---	2-5
Utah juniper	JUOS	---	---	---	---	---	X	---
singleleaf pinyon	PIMO	---	---	---	---	---	X	---

Range site number	028BY011NV	028BY075NV	028BY052NV	028BY011NV	028BY084NV	028BY060NV	028BY008NV
Potential production (lb/acre):							
Favorable years	600	700	800	600	900	500	600
Normal years	450	500	600	450	700	300	400
Unfavorable years	250	300	450	250	400	250	200

851--PALINOR-ZIMBOB-TECOMar ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PALINOR	ZIMBOB	TECOMar	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	15-25	10-20	40-50	---	15-25	2-5
Sandberg bluegrass	POSE	2-8	2-5	---	---	---	---	---
Scribner needlegrass	STSC2	---	2-5	---	---	---	---	---
Thurber needlegrass	STTH2	---	---	---	---	---	---	30-40
bluebunch wheatgrass	AGSP	---	2-5	20-40	---	---	---	15-30
bluegrass	POA++	---	---	2-5	---	---	---	2-8
bottlebrush squirreltail	SIHY	2-5	2-5	---	2-5	---	2-5	---
needleandthread	STCO4	5-15	---	2-5	---	---	5-10	2-8
arrowleaf balsamroot	BASA3	---	---	---	---	---	---	2-5
globemallow	SPHAE	---	---	---	1-5	---	---	---
goldenweed	HAPLO2	---	---	2-5	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	---	2-5	---
tapertip hawksbeard	CRAC2	---	---	2-5	---	---	---	2-5
Wyoming big sagebrush	ARTRW	---	---	---	---	---	20-35	---
antelope bitterbrush	POTR2	---	---	---	---	---	---	2-10
big sagebrush	ARTR2	---	---	---	---	---	---	15-25
black sagebrush	ARARN	25-35	30-35	25-35	---	---	---	---
downy rabbitbrush	CHVIP4	2-5	---	---	---	---	---	---
shadscale	ATCO	2-5	---	2-5	25-35	---	2-5	---
spiny hopsage	GRSP	---	---	---	---	---	5-20	---
winterfat	EULA5	---	---	2-5	5-10	---	---	---
Range site number		028BY011NV	028BY059NV	028BY008NV	028BY075NV	None	028BY052NV	028BY007NV
Potential production (lb/acre):								
Favorable years		600	400	600	700		800	1000
Normal years		450	350	400	500		600	800
Unfavorable years		250	125	200	300		450	600

852--PALINOR-PYRAT-SHABLISS ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PALINOR	PYRAT	SHABLISS	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-35	20-30	20-30	5-10	X	10-20	5-15
Sandberg bluegrass	POSE	2-8	2-5	2-5	---	---	---	---
basin wildrye	ELCI2	---	---	---	10-20	X	---	2-5
bluebunch wheatgrass	AGSP	---	---	---	---	---	20-40	30-50
bluegrass	POA++	---	---	---	---	X	---	2-8
bottlebrush squirreltail	SIHY	2-5	2-8	2-5	---	X	---	---
muttongrass	POPE	---	---	---	---	---	2-8	---
needleandthread	STCO4	5-15	10-20	10-20	---	X	2-5	2-5
thickspike wheatgrass	AGDA	---	---	---	5-10	---	---	---
thickstem wildcabbage	CACR11	---	---	---	---	X	---	---
Utah juniper	JUOS	---	---	---	---	X	---	---
Wyoming big sagebrush	ARTRW	---	25-35	25-35	25-35	---	---	---
antelope bitterbrush	PTR2	---	---	---	---	X	---	---
big sagebrush	ARTR2	---	---	---	---	---	---	20-30
black sagebrush	ARARN	25-35	---	---	---	X	20-30	---
downy rabbitbrush	CHVIP4	2-5	---	---	---	---	---	---
rabbitbrush	CHRYS9	---	2-5	---	---	---	---	---
shadscale	ATCO	2-5	---	---	---	---	---	---
winterfat	EULA5	---	---	---	---	---	2-5	---
Range site number		028BY011NV	028BY010NV	028BY080NV	028BY045NV	028BY083NV	028BY006NV	028BY094NV
Potential production (lb/acre):								
Favorable years		600	800	600	1000	300	800	800
Normal years		450	600	400	800	200	600	600
Unfavorable years		250	400	200	600	125	400	400

854--PALINOR-AUTOMAL-SHABLISS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PALINOR	AUTOMAL	SHABLISS	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-35	20-35	20-30	5-10	40-50
Sandberg bluegrass	POSE	2-8	2-8	2-5	---	---
basin wildrye	ELCI2	---	---	---	10-20	---
bottlebrush squirreltail	SIHY	2-5	2-5	2-8	---	2-5
needleandthread	STCO4	5-15	5-15	10-20	---	---
thickspike wheatgrass	AGDA	---	---	---	5-10	---
globemallow	SPHA8	---	---	---	---	1-5
Wyoming big sagebrush	ARTRW	---	---	25-35	25-35	---
black sagebrush	ARARN	25-35	25-35	---	---	---
downy rabbitbrush	CHVIP4	2-5	2-5	---	---	---
rabbitbrush	CHRY99	---	---	2-5	---	---
shadscale	ATCO	2-5	2-5	---	---	25-35
winterfat	EULA5	---	---	---	---	5-10
Range site number		028BY011NV	028BY011NV	028BY010NV	028BY045NV	028BY075NV
Potential production (lb/acre):						
Favorable years		600	600	800	1000	700
Normal years		450	450	600	800	500
Unfavorable years		250	250	400	600	300

856--PALINOR-PARISA ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PALINOR	PARISA	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-35	20-30	X	5-15	10-20
Sandberg bluegrass	POSE	2-8	2-5	---	---	---
Thurber needlegrass	STTH2	---	---	X	---	---
basin wildrye	ELCI2	---	---	X	2-5	---
bluebunch wheatgrass	AGSP	---	---	X	30-50	20-40
bluegrass	POA++	---	---	X	2-8	---
bottlebrush squirreltail	SIHY	2-5	2-8	X	---	---
muttongrass	POPE	---	---	---	---	2-8
needleandthread	STCO4	5-15	10-20	---	2-5	2-5
arrowleaf balsamroot	BASA3	---	---	X	---	---
tapertip hawksbeard	CRAC2	---	---	X	---	---
Stansbury cliffrose	COMES	---	---	X	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	---
antelope bitterbrush	POTR2	---	---	X	---	---
big sagebrush	ARTR2	---	---	---	20-30	---
black sagebrush	ARARN	25-35	---	X	---	20-30
curlleaf mountainmahogany	CELE3	---	---	X	---	---
downy rabbitbrush	CHVIP4	2-5	---	---	---	---
rabbitbrush	CHRY99	---	2-5	---	---	---
serviceberry	AMELA	---	---	X	---	---
shadscale	ATCO	2-5	---	---	---	---
winterfat	EULA5	---	---	---	---	2-5
Utah juniper	JUOS	---	---	X	---	---
singleleaf pinyon	PIMO	---	---	X	---	---
Range site number		028BY011NV	028BY010NV	028BY060NV	028BY094NV	028BY006NV
Potential production (lb/acre):						
Favorable years		600	800	500	800	800
Normal years		450	600	300	600	600
Unfavorable years		250	400	250	400	400

857--PALINOR-SHABLISS-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PALINOR	SHABLISS	LINOYER	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-35	20-30	15-25	20-35	20-30
Sandberg bluegrass	POSE	2-8	2-5	---	2-8	2-5
bottlebrush squirreltail	SIHY	2-5	2-8	5-10	2-5	2-8
needleandthread	STCO4	5-15	10-20	---	5-15	10-20
other perennial grasses	PPGG	---	---	2-5	---	---
globemallow	SPHAE	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	---	25-35
black sagebrush	ARARN	25-35	---	---	25-35	---
bud sagebrush	ARSP5	---	---	2-8	---	---
downy rabbitbrush	CHVIP4	2-5	---	---	2-5	---
fourwing saltbush	ATCA2	---	---	2-5	---	---
rabbitbrush	CHRY99	---	2-5	---	---	2-5
shadscale	ATCO	2-5	---	---	2-5	---
winterfat	EULA5	---	---	40-50	---	---
Range site number		028BY011NV	028BY010NV	028BY013NV	028BY011NV	028BY010NV
Potential production (lb/acre):						
Favorable years		600	800	700	600	800
Normal years		450	600	500	450	600
Unfavorable years		250	400	350	250	400

858--PALINOR-AUTOMAL-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PALINOR	AUTOMAL	LINOYER	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-35	20-35	15-25	20-30	20-30
Sandberg bluegrass	POSE	2-8	2-8	---	2-5	2-5
bottlebrush squirreltail	SIHY	2-5	2-5	5-10	2-8	2-8
needleandthread	STCO4	5-15	5-15	---	10-20	10-20
other perennial grasses	PPGG	---	---	2-5	---	---
globemallow	SPHAE	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	25-35
black sagebrush	ARARN	25-35	25-35	---	---	---
bud sagebrush	ARSP5	---	---	2-8	---	---
downy rabbitbrush	CHVIP4	2-5	2-5	---	---	---
fourwing saltbush	ATCA2	---	---	2-5	---	---
rabbitbrush	CHRY9	---	---	---	2-5	2-5
shadscale	ATCO	2-5	2-5	---	---	---
winterfat	EULA5	---	---	40-50	---	---
Range site number		028BY011NV	028BY011NV	028BY013NV	028BY010NV	028BY010NV
Potential production (lb/acre):						
Favorable years		600	600	700	800	800
Normal years		450	450	500	600	600
Unfavorable years		250	250	350	400	400

870--THERIOT-ZIMBOB ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		THERIOT	ZIMBOB	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	10-25	10-20	---	10-20	15-25
Sandberg bluegrass	POSE	---	2-5	---	---	2-5
Scribner needlegrass	STSC2	---	---	---	---	2-5
bluebunch wheatgrass	AGSP	---	---	---	20-40	2-5
bluegrass	FOA++	---	---	---	2-5	---
bottlebrush squirreltail	SIHY	2-5	2-5	---	---	2-5
galleta	HIJA	2-8	---	---	---	---
needleandthread	STCO4	2-10	10-20	---	2-5	---
goldenweed	HAPLO2	---	---	---	2-5	---
tapertip hawksbeard	CRAC2	---	---	---	2-5	---
black sagebrush	ARARN	---	35-45	---	25-35	30-35
bud sagebrush	ARSP5	2-10	---	---	---	---
shadscale	ATCO	15-25	2-5	---	2-5	---
winterfat	EULA5	2-5	---	---	2-5	---
Range site number		028AY003NV	028BY016NV	None	028BY008NV	028BY059NV
Potential production (lb/acre):						
Favorable years		250	350		600	400
Normal years		150	225		400	350
Unfavorable years		75	100		200	125

880--DUFFER, DRAINED-DUFFER-KOLDA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		DUFFER	DUFFER	KOLDA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	---	2-8	---	---	---	---	---
Indian ricegrass	ORHY	---	---	---	2-5	2-10	---	40-50
alkali cordgrass	SPGR	---	10-15	---	---	---	---	---
alkali sacaton	SPAI	15-40	40-50	---	---	---	5-10	---
alkaligrass	PUCCI	---	2-5	---	---	---	---	---
basin wildrye	ELCI2	40-60	---	2-5	---	10-20	2-5	---
bluegrass	POA++	---	2-8	25-40	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	2-5	---	---	2-5
inland saltgrass	DISPS2	2-5	2-5	---	---	---	2-8	---
mat muhly	MURI	---	---	2-5	---	---	---	---
rush	JunCU	---	---	5-15	---	---	---	---
sedge	CAREX	---	5-10	20-30	---	---	---	---
western wheatgrass	AGSM	2-5	---	---	---	---	---	---
cinquefoil	POTEN	---	---	2-5	---	---	---	---
groundsel	SENEC	---	---	2-5	---	---	---	---
big sagebrush	ARTR2	---	---	---	---	20-30	---	---
black greasewood	SAVE4	5-15	---	---	20-30	30-40	60-75	---
bud sagebrush	ARSP5	---	---	---	2-10	---	---	5-15
rubber rabbitbrush	CHNA2	2-5	---	---	---	2-5	2-5	---
shadscale	ATCO	---	---	---	20-50	---	2-5	---
winterfat	EULA5	---	---	---	---	---	---	20-30

Range site number	028BY004NV	028BY002NV	028BY001NV	028BY074NV	028BY028NV	028BY020NV	028BY084NV
Potential production (lb/acre):							
Favorable years	2200	1500	4000	600	800	500	900
Normal years	1500	1000	2000	400	600	300	700
Unfavorable years	800	700	1200	200	400	150	400

881--DUFFER-KUNZLER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		DUFFER	KUNZLER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	---	---	---	---	2-8	---
Indian ricegrass	ORHY	---	2-10	---	2-5	---	---
alkali cordgrass	SPGR	---	---	---	---	10-15	---
alkali sacaton	SPAI	15-40	---	---	---	40-50	5-10
alkaligrass	PUCCI	---	---	---	---	2-5	---
basin wildrye	ELCI2	40-60	10-20	2-5	---	---	2-5
bluegrass	POA++	---	---	25-40	---	---	2-8
bottlebrush squirreltail	SIHY	---	---	---	2-5	---	---
inland saltgrass	DISPS2	2-5	---	---	---	2-5	2-8
mat muhly	MURI	---	---	2-5	---	---	---
rush	JunCU	---	---	5-15	---	---	---
sedge	CAREX	---	---	20-30	---	5-10	---
western wheatgrass	AGSM	2-5	---	---	---	---	---
cinquefoil	POTEN	---	---	2-5	---	---	---
groundsel	SENEC	---	---	2-5	---	---	---
big sagebrush	ARTR2	---	20-30	---	---	---	---
black greasewood	SAVE4	5-15	30-40	---	20-30	---	60-75
bud sagebrush	ARSP5	---	---	---	2-10	---	---
rubber rabbitbrush	CHNA2	2-5	2-5	---	---	---	2-5
shadscale	ATCO	---	---	---	20-50	---	2-5

Range site number	028BY004NV	028BY028NV	028BY001NV	028BY074NV	028BY002NV	028BY020NV
Potential production (lb/acre):						
Favorable years	2200	800	4000	600	1500	500
Normal years	1500	600	2000	400	1000	300
Unfavorable years	800	400	1200	200	700	150

882--DUFFER-KOLDA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		DUFFER	KOLDA	Inclusion 1	Inclusion 2	Inclusion 3
Baltic rush	JUBA	2-8	---	---	---	---
Indian ricegrass	ORHY	---	---	2-10	2-5	---
alkali cordgrass	SPGR	10-15	---	---	---	---
alkali sacaton	SPAI	40-50	---	---	---	15-40
alkaligrass	PUCCI	2-5	---	---	---	---
basin wildrye	ELCI2	---	2-5	10-20	---	40-60
bluegrass	POA++	2-8	25-40	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	2-5	---
inland saltgrass	DISPS2	2-5	---	---	---	2-5
mat muhly	MURI	---	2-5	---	---	---
rush	JunCU	---	5-15	---	---	---
sedge	CAREX	5-10	20-30	---	---	---
western wheatgrass	AGSM	---	---	---	---	2-5
cinquefoil	POTEN	---	2-5	---	---	---
groundsel	SENEC	---	2-5	---	---	---
big sagebrush	ARTR2	---	---	20-30	---	---
black greasewood	SAVE4	---	---	30-40	20-30	5-15
bud sagebrush	ARSP5	---	---	---	2-10	---
rubber rabbitbrush	CHNA2	---	---	2-5	---	2-5
shadscale	ATCO	---	---	---	20-50	---
Range site number		028BY002NV	028BY001NV	028BY028NV	028BY074NV	028BY004NV
Potential production (lb/acre):						
Favorable years		1500	4000	800	600	2200
Normal years		1000	2000	600	400	1500
Unfavorable years		700	1200	400	200	800

894--ZERK-THREESSEE-MAZUMA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		ZERK	THREESSEE	MAZUMA	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	20-30	20-30	---	15-25	15-25
Sandberg bluegrass	POSE	---	2-5	---	5-10	---	---
bottlebrush squirreltail	SIHY	2-5	2-8	10-20	5-15	5-10	---
needleandthread	STCO4	---	10-20	---	---	---	15-25
other perennial grasses	PPGG	---	---	---	---	2-5	---
thickspike wheatgrass	AGDA	---	---	---	---	---	5-15
globemallow	SPHAE	1-5	---	2-4	---	2-5	---
Wyoming big sagebrush	ARTRW	---	25-35	---	60-70	---	---
big sagebrush	ARTR2	---	---	---	---	---	15-25
bud sagebrush	ARSP5	---	---	---	---	2-8	---
fourwing saltbush	ATCA2	---	---	---	---	2-5	2-8
rabbitbrush	CHRY89	---	2-5	---	---	---	2-5
shadscale	ATCO	25-35	---	45-50	---	---	---
winterfat	EULA5	5-10	---	---	---	40-50	2-5
Range site number		028BY075NV	028BY010NV	028BY009NV	028BY056NV	028BY013NV	028BY005NV
Potential production (lb/acre):							
Favorable years		700	800	500	450	700	800
Normal years		500	600	400	325	500	600
Unfavorable years		300	400	300	150	350	400

900--ZERK-AUTOMAL-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ZERK	AUTOMAL	LINOYER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	40-50	20-35	15-25	40-50	1-5	20-30	15-25
Sandberg bluegrass	POSE	---	2-8	---	---	---	2-5	---
bottlebrush squirreltail	SIHY	2-5	2-5	5-10	2-5	5-10	2-8	2-5
needleandthread	STCO4	---	5-15	---	---	---	10-20	5-10
other perennial grasses	PPGG	---	---	2-5	---	---	---	---
globemallow	SPHAE	---	---	2-5	1-5	---	---	---
scarlet globemallow	SFCO	---	---	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	---	---	---	---	---	25-35	20-35
black sagebrush	ARARN	---	25-35	---	---	---	---	---
bud sagebrush	ARSP5	5-15	---	2-8	---	---	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---	---	---
fourwing saltbush	ATCA2	---	---	2-5	---	---	---	---
rabbitbrush	CHRY89	---	---	---	---	---	2-5	---
shadscale	ATCO	---	2-5	---	25-35	85-90	---	2-5
spiny hopsage	GRSP	---	---	---	---	---	---	5-20
winterfat	EULAS	20-30	---	40-50	5-10	---	---	---
Range site number		028BY084NV	028BY011NV	028BY013NV	028BY075NV	028BY073NV	028BY010NV	028BY052NV
Potential production (lb/acre):								
Favorable years		900	600	700	700	400	800	800
Normal years		700	450	500	500	300	600	600
Unfavorable years		400	250	350	300	200	400	450

910--RAGTOWN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions		
		Soil name or Inclusion number--		
		RAGTOWN	RAGTOWN	Inclusion 1
Indian ricegrass	ORHY	---	2-8	1-5
bottlebrush squirreltail	SIHY	5-10	2-5	5-10
western wheatgrass	AGSM	2-5	5-15	---
black greasewood	SAVE4	15-25	---	---
shadscale	ATCO	2-5	2-5	85-90
sickle saltbush	ATFA	50-60	55-65	---
winterfat	EULA5	---	5-15	---
Range site number		028BY097NV	028BY047NV	028BY073NV
Potential production (lb/acre):				
Favorable years		500	500	400
Normal years		350	350	300
Unfavorable years		200	200	200

912--KATELANA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		KATELANA	KATELANA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	1-5	5-15	5-10	---	---
basin wildrye	ELCI2	---	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	2-5	5-10	2-5	---	5-10	---
thickspike wheatgrass	AGDA	---	---	---	2-5	---	---
western wheatgrass	AGSM	---	---	---	---	2-5	---
wheatgrass	AGROP2	---	---	20-30	---	---	---
black greasewood	SAVE4	20-30	---	---	40-60	15-25	---
bud sagebrush	ARSP5	2-10	---	---	---	---	---
fourwing saltbush	ATCA2	---	---	---	5-10	---	---
shadscale	ATCA	20-50	85-90	---	5-10	2-5	---
sickle saltbush	ATPA	---	---	---	---	50-60	---
winterfat	EULA5	---	---	40-50	---	---	---
Range site number		028BY074NV	028BY073NV	028BY071NV	028BY021NV	028BY097NV	None
Potential production (lb/acre):							
Favorable years		600	400	600	400	500	
Normal years		400	300	400	300	350	
Unfavorable years		200	200	200	200	200	

914--KATELANA-BENIN-SHEPPIT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		KATELANA	BENIN	SHEPPIT	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	2-5	---	2-10	5-10	---	5-15
alkali sacaton	SPAI	---	5-10	---	---	---	---
basin wildrye	ELCI2	---	2-5	10-20	2-5	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	---	---	2-5
inland saltgrass	DISPS2	---	2-8	---	---	---	---
thickspike wheatgrass	AGDA	---	---	---	2-5	---	---
wheatgrass	AGROP2	---	---	---	---	---	20-30
big sagebrush	ARTR2	---	---	20-30	---	---	---
black greasewood	SAVE4	20-30	60-75	30-40	40-60	---	---
bud sagebrush	ARSP5	2-10	---	---	---	---	---
fourwing saltbush	ATCA2	---	---	---	5-10	---	---
rubber rabbitbrush	CHNA2	---	2-5	2-5	---	---	---
shadscale	ATCO	20-50	2-5	---	5-10	---	---
winterfat	EULA5	---	---	---	---	---	40-50
Range site number		028BY074NV	028BY020NV	028BY028NV	028BY021NV	None	028BY071NV
Potential production (lb/acre):							
Favorable years		600	500	800	400		600
Normal years		400	300	600	300		400
Unfavorable years		200	150	400	200		200

917--KATELANA-SHEFFIT-RAGTOWN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		KATELANA	SHEFFIT	RAGTOWN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	2-5	2-10	---	1-5	2-8	---
basin wildrye	ELCI2	---	10-20	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	---	5-10	5-10	2-5	---
western wheatgrass	AGSM	---	---	2-5	---	5-15	---
big sagebrush	ARTR2	---	20-30	---	---	---	---
black greasewood	SAVE4	20-30	30-40	15-25	---	---	---
bud sagebrush	ARSP5	2-10	---	---	---	---	---
rubber rabbitbrush	CHNA2	---	2-5	---	---	---	---
shadscale	ATCO	20-50	---	2-5	85-90	2-5	---
sickle saltbush	ATPA	---	---	50-60	---	55-65	---
winterfat	EULA5	---	---	---	---	5-15	---
Range site number		028BY074NV	028BY028NV	028BY097NV	028BY073NV	028BY047NV	None
Potential production (lb/acre):							
Favorable years		600	800	500	400	500	
Normal years		400	600	350	300	350	
Unfavorable years		200	400	200	200	200	

918--KATELANA-ZORRAVISTA-PLAYAS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		KATELANA	ZORRAVISTA	PLAYAS	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	10-25	---	2-10	---	2-8	---
alkali sacaton	SPAI	---	---	---	---	---	---	15-40
basin wildrye	ELCI2	---	---	---	10-20	---	---	40-60
bottlebrush squirreltail	SIHY	2-5	---	---	---	5-10	2-5	---
inland saltgrass	DISPS2	---	---	---	---	---	---	2-5
needleandthread	STCO4	---	2-5	---	---	---	---	---
other perennial grasses	PPGG	---	2-8	---	---	---	---	---
thickspike wheatgrass	AGDA	---	5-15	---	---	---	---	---
western wheatgrass	AGSM	---	---	---	---	2-5	5-15	2-5
big sagebrush	ARTR2	---	30-40	---	20-30	---	---	---
black greasewood	SAVE4	20-30	---	---	30-40	15-25	---	5-15
bud sagebrush	ARSP5	2-10	---	---	---	---	---	---
fourwing saltbush	ATCA2	---	5-15	---	---	---	---	---
rubber rabbitbrush	CHNA2	---	2-5	---	2-5	---	---	2-5
shadscale	ATCO	20-50	---	---	---	2-5	2-5	---
sickle saltbush	ATFA	---	---	---	---	50-60	55-65	---
spiny hopsage	GRSP	---	5-10	---	---	---	---	---
winterfat	EULA5	---	---	---	---	---	5-15	---
Range site number		028BY074NV	028BY068NV	None	028BY028NV	028BY097NV	028BY047NV	028BY004NV
Potential production (lb/acre):								
Favorable years		600	800		800	500	500	2200
Normal years		400	500		600	350	350	1500
Unfavorable years		200	300		400	200	200	800

930--OKAN-TOANO-LORAY ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		OKAN	TOANO	LORAY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	15-25	2-8	15-25	15-25	15-25	20-35	---
King desertgrass	BLKI	---	---	2-5	---	---	---	---
Sandberg bluegrass	POSE	---	---	---	---	---	2-8	---
bottlebrush squirreltail	SIHY	2-5	2-5	---	5-10	2-5	2-5	---
galleta	HIJA	---	---	2-8	---	---	---	---
needleandthread	STCO4	5-10	---	---	---	5-10	5-15	---
other perennial grasses	PPGG	---	---	---	2-5	---	---	---
western wheatgrass	AGSM	---	5-15	---	---	---	---	---
globemallow	SPHAE	---	---	2-5	2-5	---	---	---
scarlet globemallow	SPCO	2-5	---	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	20-35	---	---	---	20-35	---	---
black sagebrush	ARARN	---	---	---	---	---	25-35	---
bud sagebrush	ARSP5	---	---	5-10	2-8	---	---	---
downy rabbitbrush	CHVIP4	---	---	---	---	---	2-5	---
fourwing saltbush	ATCA2	---	---	---	2-5	---	---	---
gray molly kochia	KOAMV	---	---	2-5	---	---	---	---
shadscale	ATCO	2-5	2-5	40-50	---	2-5	2-5	---
sickle saltbush	ATFA	---	55-65	---	---	---	---	---
spiny hopsage	GRSP	5-20	---	---	---	5-20	---	---
winterfat	EULA5	---	5-15	2-8	40-50	---	---	---
Range site number		028BY052NV	028BY047NV	028AY012NV	028BY013NV	028BY052NV	028BY011NV	None
Potential production (lb/acre):								
Favorable years		800	500	500	700	800	600	
Normal years		600	350	300	500	600	450	
Unfavorable years		450	200	200	350	450	250	

932--OKAN-PYRAT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		OKAN	PYRAT	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	15-25	15-25	15-25	2-10
Sandberg bluegrass	POSE	2-5	2-5	---	---	---	---
basin wildrye	ELCI2	---	---	---	---	---	10-20
bottlebrush squirreltail	SIHY	2-8	2-8	2-5	---	2-5	---
needleandthread	STCO4	10-20	10-20	5-10	15-25	5-10	---
thickspike wheatgrass	AGDA	---	---	---	5-15	---	---
scarlet globemallow	SPCO	---	---	2-5	---	2-5	---
Wyoming big sagebrush	ARTRW	25-35	25-35	20-35	---	20-35	---
big sagebrush	ARTR2	---	---	---	15-25	---	20-30
black greasewood	SAVE4	---	---	---	---	---	30-40
fourwing saltbush	ATCA2	---	---	---	2-8	---	---
rabbitbrush	CHRY9	2-5	2-5	---	2-5	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5
shadscale	ATCO	---	---	2-5	---	2-5	---
spiny hopsage	GRSP	---	---	5-20	---	5-20	---
winterfat	EULA5	---	---	---	2-5	---	---
Range site number		028BY010NV	028BY010NV	028BY052NV	028BY005NV	028BY052NV	028BY028NV
Potential production (lb/acre):							
Favorable years		800	800	800	800	800	800
Normal years		600	600	600	600	600	600
Unfavorable years		400	400	450	400	450	400

941--SHEFFIT-ZORRAVISTA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		SHEFFIT	SHEFFIT	ZORRAVISTA	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-10	---	10-25	2-10	2-5
basin wildrye	ELCI2	10-20	40-60	---	10-20	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5
creeping wildrye	ELTR3	---	5-30	---	---	---
needleandthread	STCO4	---	---	2-5	---	---
other perennial grasses	PPGG	---	---	2-8	---	---
thickspike wheatgrass	AGDA	---	---	5-15	---	---
big sagebrush	ARTR2	20-30	5-15	30-40	20-30	---
black greasewood	SAVE4	30-40	---	---	30-40	20-30
bud sagebrush	ARSP5	---	---	---	---	2-10
fourwing saltbush	ATCA2	---	---	5-15	---	---
rubber rabbitbrush	CHNA2	2-5	---	2-5	2-5	---
shadscale	ATCO	---	---	---	---	20-50
spiny hopsage	GRSP	---	---	5-10	---	---
Range site number		028BY028NV	028AY025NV	028BY068NV	028BY028NV	028BY074NV
Potential production (lb/acre):						
Favorable years		800	1800	800	800	600
Normal years		600	1500	500	600	400
Unfavorable years		400	1100	300	400	200

943--SHEFFIT-UMBERLAND ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		SHEFFIT	UMBERLAND	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	2-10	---	---	2-5	---
alkali sacaton	SPAI	---	15-40	---	---	---
basin wildrye	ELCI2	10-20	40-60	---	---	---
bottlebrush squirreltail	SIHY	---	---	5-10	2-5	---
inland saltgrass	DISPS2	---	2-5	---	---	20-30
western wheatgrass	AGSM	---	2-5	2-5	---	---
big sagebrush	ARTR2	20-30	---	---	---	---
black greasewood	SAVE4	30-40	5-15	15-25	20-30	---
bud sagebrush	ARSP5	---	---	---	2-10	---
iodinebush	ALOC2	---	---	---	---	50-60
rubber rabbitbrush	CHNA2	2-5	2-5	---	---	---
shadscale	ATCO	---	---	2-5	20-50	---
sickle saltbush	ATFA	---	---	50-60	---	---
Range site number		028BY028NV	028BY004NV	028BY097NV	028BY074NV	028AY009NV
Potential production (lb/acre):						
Favorable years		800	2200	500	600	150
Normal years		600	1500	350	400	100
Unfavorable years		400	800	200	200	75

960--GRAVIER-ZERK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		GRAVIER	ZERK	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	40-50	40-50	20-35	---	20-30
Sandberg bluegrass	POSE	---	---	2-8	---	2-5
bottlebrush squirreltail	SIHY	2-5	2-5	2-5	5-10	2-8
needleandthread	STCO4	---	---	5-15	---	10-20
western wheatgrass	AGSM	---	---	---	2-5	---
globemallow	SPHAE	---	1-5	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35
black greasewood	SAVE4	---	---	---	15-25	---
black sagebrush	ARARN	---	---	25-35	---	---
bud sagebrush	ARSP5	5-15	---	---	---	---
downy rabbitbrush	CHVIP4	---	---	2-5	---	---
rabbitbrush	CHRS9	---	---	---	---	2-5
shadscale	ATCO	---	25-35	2-5	2-5	---
sickle saltbush	ATFA	---	---	---	50-60	---
winterfat	EULA5	20-30	5-10	---	---	---
Range site number		028BY084NV	028BY075NV	028BY011NV	028BY097NV	028BY010NV
Potential production (lb/acre):						
Favorable years		900	700	600	500	800
Normal years		700	500	450	350	600
Unfavorable years		400	300	250	200	400

961--GRAVIER-PILTDOWN-ZERK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		GRAVIER	PILTDOWN	ZERK	Inclusion 1
Indian ricegrass	ORHY	40-50	50-70	40-50	1-5
bottlebrush squirreltail	SIHY	2-5	---	2-5	5-10
galleta	HIJA	---	2-5	---	---
needleandthread	STCO4	---	2-5	---	---
sand dropseed	SPCR	---	5-15	---	---
globemallow	SPHAE	---	---	1-5	---
bud sagebrush	ARSP5	5-15	---	---	---
fourwing saltbush	ATCA2	---	15-25	---	---
shadscale	ATCO	---	---	25-35	85-90
winterfat	EULA5	20-30	2-8	5-10	---
Range site number		028BY084NV	029XY012NV	028BY075NV	028BY073NV
Potential production (lb/acre):					
Favorable years		900	700	700	400
Normal years		700	500	500	300
Unfavorable years		400	300	300	200

972--ZIMBOB-POOKALOO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ZIMBOB	ZIMBOB	POOKALOO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	15-25	X	5-15	10-20	2-5	---
Sandberg bluegrass	POSE	2-5	2-5	---	---	---	---	---
Scribner needlegrass	STSC2	---	2-5	---	---	---	2-10	---
Thurber needlegrass	STTH2	---	---	X	---	---	---	---
basin wildrye	ELCI2	---	---	X	2-5	---	---	---
bluebunch wheatgrass	AGSP	---	2-5	X	30-50	20-40	---	---
bluegrass	POA++	---	---	X	2-8	2-5	---	---
bottlebrush squirreltail	SIHY	2-5	2-5	X	---	---	---	---
needleandthread	STCO4	10-20	---	---	2-5	2-5	---	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	---	---
goldenweed	HAPLO2	---	---	---	---	2-5	2-5	---
tapertip hawkbeard	CRAC2	---	---	X	---	2-5	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---	---
antelope bitterbrush	PUTR2	---	---	X	---	---	---	---
big sagebrush	ARTR2	---	---	---	20-30	---	---	---
black sagebrush	ARARN	35-45	30-35	X	---	25-35	2-8	---
curlleaf mountainmahogany	CELE3	---	---	X	---	---	---	---
desert snowberry	SYLO	---	---	---	---	---	2-8	---
littleleaf mountainmahogany	CEIN7	---	---	---	---	---	60-70	---
serviceberry	AMELA	---	---	X	---	---	---	---
shadscale	ATCO	2-5	---	---	---	2-5	---	---
winterfat	EULA5	---	---	---	---	2-5	---	---
Utah juniper	JUOS	---	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---	---

Range site number	028BY016NV	028BY059NV	028BY060NV	028BY094NV	028BY008NV	028BY066NV	None
Potential production (lb/acre):							
Favorable years	350	400	500	800	600	1300	
Normal years	225	350	300	600	400	1000	
Unfavorable years	100	125	250	400	200	800	

974--ZIMBOB-TECOMar-POOKALOO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ZIMBOB	TECOMar	POOKALOO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	10-20	X	15-25	5-10	15-25	20-35
Sandberg bluegrass	POSE	2-5	---	---	2-5	---	---	2-8
Scribner needlegrass	STSC2	---	---	---	2-5	---	---	---
Thurber needlegrass	STTH2	---	---	X	---	---	---	---
basin wildrye	ELCI2	---	---	X	---	10-20	---	---
bluebunch wheatgrass	AGSP	---	20-40	X	2-5	---	---	---
bluegrass	POA++	---	2-5	X	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	---	X	2-5	---	2-5	2-5
needleandthread	STCO4	10-20	2-5	---	---	---	5-10	5-15
thickspike wheatgrass	AGDA	---	---	---	---	5-10	---	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	---	---
goldenweed	HAPLO2	---	2-5	---	---	---	---	---
scarlet globemallow	SFCO	---	---	---	---	---	2-5	---
tapertip hawkbeard	CRAC2	---	2-5	X	---	---	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	20-35	---
antelope bitterbrush	PUTR2	---	---	X	---	---	---	---
black sagebrush	ARARN	35-45	25-35	X	30-35	---	---	25-35
curlleaf mountainmahogany	CELE3	---	---	X	---	---	---	---
downy rabbitbrush	CHVIP4	---	---	---	---	---	---	2-5
serviceberry	AMELA	---	---	X	---	---	---	---
shadscale	ATCO	2-5	2-5	---	---	---	2-5	2-5
spiny hopsage	GRSP	---	---	---	---	---	5-20	---
winterfat	EULA5	---	2-5	---	---	---	---	---
Utah juniper	JUOS	---	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---	---

Range site number	028BY016NV	028BY008NV	028BY060NV	028BY059NV	028BY045NV	028BY052NV	028BY011NV
Potential production (lb/acre):							
Favorable years	350	600	500	400	1000	800	600
Normal years	225	400	300	350	800	600	450
Unfavorable years	100	200	250	125	600	450	250

975--TECOMar-ZIMBOB ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ZIMBOB	TECOMar	TECOMar	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-20	10-20	5-10	---	X	5-15	15-25
Sandberg bluegrass	POSE	2-5	---	2-5	---	---	---	2-5
Scribner needlegrass	STSC2	---	---	2-5	---	---	---	2-5
Thurber needlegrass	STTH2	---	---	---	---	X	---	---
basin wildrye	ELCI2	---	---	---	---	X	2-5	---
bluebunch wheatgrass	AGSP	---	20-40	15-25	---	X	30-50	2-5
bluegrass	POA++	---	2-5	---	---	X	2-8	---
bottlebrush squirreltail	SIHY	2-5	---	---	---	X	---	2-5
needleandthread	STCO4	10-20	2-5	---	---	---	2-5	---
arrowleaf balsamroot	BASA3	---	---	---	---	X	---	---
goldenweed	HAPLO2	---	2-5	---	---	---	---	---
tapertip hawksbeard	CRAC2	---	2-5	---	---	X	---	---
Douglas rabbitbrush	CHVI8	---	---	2-5	---	---	---	---
Mexican cliffrose	COMES	---	---	1-10	---	---	---	---
Stansbury cliffrose	COMES	---	---	---	---	X	---	---
antelope bitterbrush	PUTR2	---	---	---	---	X	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30	---
black sagebrush	ARARN	35-45	25-35	30-40	---	X	---	30-35
curlleaf mountainmahogany	CELE3	---	---	---	---	X	---	---
serviceberry	AMELA	---	---	---	---	X	---	---
shadscale	ATCO	2-5	2-5	---	---	---	---	---
winterfat	EULA5	---	2-5	---	---	---	---	---
Utah juniper	JUOS	---	---	---	---	X	---	---
singleleaf pinyon	PIMO	---	---	10-15	---	X	---	---

Range site number	028BY016NV	028BY008NV	028BY090NV	None	028BY060NV	028BY094NV	028BY059NV
Potential production (lb/acre):							
Favorable years	350	600	400		500	800	400
Normal years	225	400	250		300	600	350
Unfavorable years	100	200	125		250	400	125

980--ONKEYO-POOKALOO-ZIMBOB ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ONKEYO	POOKALOO	ZIMBOB	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	15-30	X	10-20	2-5	---	---	---
Thurber needlegrass	STTH2	---	X	---	30-40	---	---	---
basin wildrye	ELCI2	---	X	---	---	---	2-8	---
bluebunch wheatgrass	AGSP	30-40	X	20-40	15-30	10-20	40-50	---
bluegrass	POA++	5-10	X	2-5	2-8	2-8	5-10	---
bottlebrush squirreltail	SIHY	---	X	---	---	---	---	---
needleandthread	STCO4	---	---	2-5	2-8	---	---	---
needlegrass	STIPA	---	---	---	---	5-15	---	---
arrowleaf balsamroot	BASA3	---	X	---	2-5	---	---	---
goldenweed	HAPLO2	---	---	2-5	---	---	---	---
tapertip hawkbeard	CRAC2	---	X	2-5	2-5	---	---	---
Stansbury cliffrose	COMES	---	X	---	---	---	---	---
Utah serviceberry	AMUT	---	---	---	---	35-45	1-5	---
antelope bitterbrush	PUTR2	5-10	X	---	2-10	---	2-10	---
big sagebrush	ARTR2	---	---	---	15-25	---	---	---
black sagebrush	ARARN	---	X	25-35	---	---	---	---
curlleaf mountainmahogany	CELE3	---	X	---	---	---	---	---
mountain big sagebrush	ARVA2	15-25	---	---	---	5-15	10-20	---
serviceberry	AMELA	---	X	---	---	---	---	---
shadscale	ATCO	---	---	2-5	---	---	---	---
snowberry	SYMPH	---	---	---	---	2-8	2-5	---
winterfat	EULA5	---	---	2-5	---	---	---	---
Utah juniper	JUOS	---	X	---	---	---	---	---
singleleaf pinyon	PIMO	---	X	---	---	---	---	---

Range site number	028BY079NV	028BY060NV	028BY008NV	028BY007NV	028BY026NV	028BY088NV	None
Potential production (lb/acre):							
Favorable years	700	500	600	1000	1200	1100	
Normal years	500	300	400	800	900	900	
Unfavorable years	300	250	200	600	700	700	

990--HYZEN-ZIMBOB ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		HYZEN	ZIMBOB	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-5	15-25	---	X
Sandberg bluegrass	POSE	---	2-5	---	---
Scribner needlegrass	STSC2	2-10	2-5	---	---
Thurber needlegrass	STTH2	---	---	---	X
basin wildrye	ELCI2	---	---	---	X
bluebunch wheatgrass	AGSP	---	2-5	---	X
bluegrass	POA++	---	---	---	X
bottlebrush squirreltail	SIHY	---	2-5	---	X
arrowleaf balsamroot	BASA3	---	---	---	X
goldenweed	HAPLO2	2-5	---	---	---
tapertip hawkbeard	CRAC2	---	---	---	X
Stansbury cliffrose	COMES	---	---	---	X
antelope bitterbrush	PUTR2	---	---	---	X
black sagebrush	ARARN	2-8	30-35	---	X
curleaf mountainmahogany	CELE3	---	---	---	X
desert snowberry	SYLO	2-8	---	---	---
littleleaf mountainmahogany	CEIN7	60-70	---	---	---
serviceberry	AMELA	---	---	---	X
Utah juniper	JUOS	---	---	---	X
singleleaf pinyon	PIMO	---	---	---	X
Range site number		028BY066NV	028BY059NV	028BY060NV	028BY060NV
Potential production (lb/acre):					
Favorable years		1300	400		500
Normal years		1000	350		300
Unfavorable years		800	125		250

991--HYZEN-CAVEHILL-TECOMar ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HYZEN	CAVEHILL	TECOMar	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	X	---	---	5-15	---	---
Indian ricegrass	ORHY	X	---	10-20	---	---	---	---
Sandberg bluegrass	POSE	---	X	---	---	---	---	---
Thurber needlegrass	STTH2	X	---	---	---	---	---	---
basin wildrye	ELCI2	X	X	---	---	---	---	---
bluebunch wheatgrass	AGSP	X	X	20-40	60-80	60-80	---	40-50
bluegrass	POA++	X	---	2-5	---	---	---	5-10
bottlebrush squirreltail	SIHY	X	X	---	---	---	---	---
muttongrass	POPE	---	X	---	2-10	---	---	---
needleandthread	STCO4	---	---	2-5	---	---	---	---
spike-fescue	LEKI2	---	---	---	---	1-10	---	---
arrowleaf balsamroot	BASA3	X	X	---	---	---	---	---
goldenweed	HAPLO2	---	---	2-5	2-5	---	---	---
tapertip hawksbeard	CRAC2	X	X	2-5	---	---	---	---
Stansbury cliffrose	COMES	X	---	---	---	---	---	---
Utah serviceberry	AMUT	---	---	---	---	---	---	1-5
antelope bitterbrush	PUTR2	X	X	---	---	---	---	2-10
black sagebrush	ARARN	X	---	25-35	25-35	---	---	---
curleaf mountainmahogany	CELE3	X	X	---	---	---	---	---
mountain big sagebrush	ARVA2	---	X	---	---	10-20	---	10-20
serviceberry	AMELA	X	X	---	---	---	---	---
shadscale	ATCO	---	---	2-5	---	---	---	---
snowberry	SYMPH	---	X	---	---	2-8	---	2-5
winterfat	EULA5	---	---	2-5	---	---	---	---
Utah juniper	JUOS	X	X	---	---	---	---	---
singleleaf pinyon	PIMO	X	X	---	---	---	---	---

Range site number	028BY060NV	028BY058NV	028BY008NV	028BY027NV	028BY070NV	None	028BY088NV
Potential production (lb/acre):							
Favorable years	500	500	600	600	1100		1100
Normal years	300	300	400	450	900		900
Unfavorable years	250	200	200	300	600		700

1000--PYRAT-ZERK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PYRAT	ZERK	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	40-50	40-50	5-10	15-25	10-20
Sandberg bluegrass	POSE	2-5	---	---	---	---	---
basin wildrye	ELCI2	---	---	---	10-20	---	---
bottlebrush squirreltail	SIHY	2-8	2-5	2-5	---	5-10	5-15
needleandthread	STCO4	10-20	---	---	---	---	---
other perennial grasses	PPGG	---	---	---	---	2-5	---
thickspike wheatgrass	AGDA	---	---	---	5-10	---	---
globemallow	SPHAE	---	---	1-5	---	2-5	---
Wyoming big sagebrush	ARTRW	25-35	---	---	25-35	---	---
bud sagebrush	ARSP5	---	5-15	---	---	2-8	10-25
fourwing saltbush	ATCA2	---	---	---	---	2-5	---
rabbitbrush	CHRYS9	2-5	---	---	---	---	---
shadscale	ATCO	---	---	25-35	---	---	40-50
winterfat	EULA5	---	20-30	5-10	---	40-50	---
Range site number		028BY010NV	028BY084NV	028BY075NV	028BY045NV	028BY013NV	028BY017NV
Potential production (lb/acre):							
Favorable years		800	900	700	1000	700	400
Normal years		600	700	500	800	500	300
Unfavorable years		400	400	300	600	350	200

1001--PYRAT-OKAN-EASTWELL ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PYRAT	OKAN	EASTWELL	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	20-35	X	20-35	15-25	2-10
Sandberg bluegrass	POSE	2-5	2-5	2-8	---	2-8	---	2-5
basin wildrye	ELCI2	---	---	---	X	---	---	---
bluegrass	POA++	---	---	---	X	---	---	---
bottlebrush squirreltail	SIHY	2-8	2-8	2-5	X	2-5	5-10	2-5
needleandthread	STCO4	10-20	10-20	5-15	X	5-15	---	2-10
other perennial grasses	PPGG	---	---	---	---	---	2-5	---
globemallow	SPHA8	---	---	---	---	---	2-5	---
thickstem wildcabbage	CACR11	---	---	---	X	---	---	---
Utah juniper	JUOS	---	---	---	X	---	---	---
Wyoming big sagebrush	ARTRW	25-35	25-35	---	---	---	---	---
antelope bitterbrush	PUR2	---	---	---	X	---	---	---
black sagebrush	ARARN	---	---	25-35	X	25-35	---	---
bud sagebrush	ARSP5	---	---	---	---	---	2-8	---
downy rabbitbrush	CHVIP4	---	---	2-5	---	2-5	---	---
fourwing saltbush	ATCA2	---	---	---	---	---	2-5	---
pigmy sagebrush	ARPY2	---	---	---	---	---	---	50-70
rabbitbrush	CHRY9	2-5	2-5	---	---	---	---	---
shadscale	ATCO	---	---	2-5	---	2-5	---	---
winterfat	EULA5	---	---	---	---	---	40-50	---

Range site number	028BY010NV	028BY010NV	028BY011NV	028BY083NV	028BY011NV	028BY013NV	028BY040NV
Potential production (lb/acre):							
Favorable years	800	800	600	300	600	700	250
Normal years	600	600	450	200	450	500	175
Unfavorable years	400	400	250	125	250	350	100

1002--THREESEE-KUNZLER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		THREESEE	KUNZLER	THREESEE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	---	20-30	15-25	2-5	10-20	15-25
Sandberg bluegrass	POSE	2-5	5-10	2-5	---	---	2-5	---
bluegrass	POA++	---	---	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	2-8	5-15	2-8	2-5	2-5	2-5	5-10
needleandthread	STCO4	10-20	---	10-20	---	---	10-20	---
other perennial grasses	PPGG	---	---	---	---	---	---	2-5
wheatgrass	AGROP2	---	---	---	5-10	---	---	---
globemallow	SPHAE	---	---	---	---	---	---	2-5
Douglas rabbitbrush	CHVI8	---	---	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	25-35	60-70	25-35	30-35	---	---	---
black greasewood	SAVE4	---	---	---	---	20-30	---	---
black sagebrush	ARARN	---	---	---	---	---	35-45	---
bud sagebrush	ARSP5	---	---	---	---	2-10	---	2-8
fourwing saltbush	ATCA2	---	---	---	---	---	---	2-5
rabbitbrush	CHRY9	2-5	---	2-5	---	---	---	---
shadscale	ATCO	---	---	---	---	20-50	2-5	---
winterfat	EULA5	---	---	---	15-30	---	---	40-50
Range site number		028BY010NV	028BY056NV	028BY010NV	028BY054NV	028BY074NV	028BY016NV	028BY013NV
Potential production (lb/acre):								
Favorable years		800	450	800	600	600	350	700
Normal years		600	325	600	450	400	225	500
Unfavorable years		400	150	400	200	200	100	350

1003--PYRAT-HUNDRAW-TULASE ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PYRAT	HUNDRAW	TULASE	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-30	X	5-10	20-35	10-20
Sandberg bluegrass	POSE	2-5	---	---	2-8	2-5
basin wildrye	ELCI2	---	X	10-20	---	---
bluegrass	POA++	---	X	---	---	---
bottlebrush squirreltail	SIHY	2-8	X	---	2-5	2-5
needleandthread	STCO4	10-20	X	---	5-15	10-20
thickspike wheatgrass	AGDA	---	---	5-10	---	---
thickstem wildcabbage	CACR11	---	X	---	---	---
Utah juniper	JUOS	---	X	---	---	---
Wyoming big sagebrush	ARTRW	25-35	---	25-35	---	---
antelope bitterbrush	PTR2	---	X	---	---	---
black sagebrush	ARARN	---	X	---	25-35	35-45
downy rabbitbrush	CHVIP4	---	---	---	2-5	---
rabbitbrush	CHRS9	2-5	---	---	---	---
shadscale	ATCO	---	---	---	2-5	2-5
Range site number		028BY010NV	028BY083NV	028BY045NV	028BY011NV	028BY016NV
Potential production (lb/acre):						
Favorable years		800	300	1000	600	350
Normal years		600	200	800	450	225
Unfavorable years		400	125	600	250	100

1004--PYRAT-PARISA-TULASE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PYRAT	PARISA	TULASE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	5-10	15-25	20-35	2-10	40-50
Sandberg bluegrass	POSE	2-5	2-5	---	---	2-8	---	---
basin wildrye	ELCI2	---	---	10-20	---	---	10-20	---
bottlebrush squirreltail	SIHY	2-8	2-8	---	2-5	2-5	---	2-5
needlesandthread	STCO4	10-20	10-20	---	5-10	5-15	---	---
thickspike wheatgrass	AGDA	---	---	5-10	---	---	---	---
scarlet globemallow	SPCO	---	---	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	25-35	25-35	25-35	20-35	---	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30	---
black greasewood	SAVE4	---	---	---	---	---	30-40	---
black sagebrush	ARARN	---	---	---	---	25-35	---	---
bud sagebrush	ARSP5	---	---	---	---	---	---	5-15
downy rabbitbrush	CHVIP4	---	---	---	---	2-5	---	---
rabbitbrush	CHRY99	2-5	2-5	---	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5	---
shadscale	ATCO	---	---	---	2-5	2-5	---	---
spiny hopsage	GRSP	---	---	---	5-20	---	---	---
winterfat	EULA5	---	---	---	---	---	---	20-30
Range site number		028BY010NV	028BY010NV	028BY045NV	028BY052NV	028BY011NV	028BY028NV	028BY084NV
Potential production (lb/acre):								
Favorable years		800	800	1000	800	600	800	900
Normal years		600	600	800	600	450	600	700
Unfavorable years		400	400	600	450	250	400	400

1005--PYRAT-ZERK-PARISA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PYRAT	ZERK	PARISA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	40-50	20-30	10-20	15-25	2-10	2-5
Sandberg bluegrass	POSE	2-5	---	2-5	---	---	---	---
basin wildrye	ELCI2	---	---	---	---	---	10-20	---
bottlebrush squirreltail	SIHY	2-8	2-5	2-8	5-15	2-5	---	2-5
needleandthread	STCO4	10-20	---	10-20	---	5-10	---	---
globemallow	SPHA8	---	1-5	---	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	25-35	---	25-35	---	20-35	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30	---
black greasewood	SAVE4	---	---	---	---	---	30-40	20-30
bud sagebrush	ARSP5	---	---	---	10-25	---	---	2-10
rabbitbrush	CHRY9	2-5	---	2-5	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5	---
shadscale	ATCO	---	25-35	---	40-50	2-5	---	20-50
spiny hopsage	GRSP	---	---	---	---	5-20	---	---
winterfat	EULA5	---	5-10	---	---	---	---	---
Range site number		028BY010NV	028BY075NV	028BY010NV	028BY017NV	028BY052NV	028BY028NV	028BY074NV
Potential production (lb/acre):								
Favorable years		800	700	800	400	800	800	600
Normal years		600	500	600	300	600	600	400
Unfavorable years		400	300	400	200	450	400	200

1006--PYRAT-BLIMO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		FYRAT	BLIMO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	20-30	15-25	2-10	20-35
Sandberg bluegrass	POSE	2-5	2-5	2-5	---	---	2-8
basin wildrye	ELCI2	---	---	---	---	10-20	---
bottlebrush squirreltail	SIHY	2-8	2-8	2-8	2-5	---	2-5
needleandthread	STCO4	10-20	10-20	10-20	5-10	---	5-15
scarlet globemallow	SPOC	---	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	25-35	25-35	25-35	20-35	---	---
big sagebrush	ARTR2	---	---	---	---	20-30	---
black greasewood	SAVE4	---	---	---	---	30-40	---
black sagebrush	ARARN	---	---	---	---	---	25-35
downy rabbitbrush	CHVIP4	---	---	---	---	---	2-5
rabbitbrush	CHRY9	2-5	2-5	2-5	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	2-5	---
shadscale	ATCO	---	---	---	2-5	---	2-5
spiny hopsage	GRSP	---	---	---	5-20	---	---
Range site number		028BY010NV	028BY010NV	028BY010NV	028BY052NV	028BY028NV	028BY011NV
Potential production (lb/acre):							
Favorable years		800	800	800	800	800	600
Normal years		600	600	600	600	600	450
Unfavorable years		400	400	400	450	400	250

1007--PYRAT-PARISA-AUTOMAL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PYRAT	PARISA	AUTOMAL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	20-30	20-35	10-20	20-30	2-10
Sandberg bluegrass	POSE	2-5	2-5	2-8	---	2-5	---
basin wildrye	ELCI2	---	---	---	---	---	10-20
bluebunch wheatgrass	AGSP	---	---	---	20-40	---	---
bottlebrush squirreltail	SIHY	2-8	2-8	2-5	---	2-8	---
muttongrass	POFE	---	---	---	2-8	---	---
needleandthread	STCO4	10-20	10-20	5-15	2-5	10-20	---
Wyoming big sagebrush	ARTRW	25-35	25-35	---	---	25-35	---
big sagebrush	ARTR2	---	---	---	---	---	20-30
black greasewood	SAVE4	---	---	---	---	---	30-40
black sagebrush	ARARN	---	---	25-35	20-30	---	---
downy rabbitbrush	CHVIP4	---	---	2-5	---	---	---
rabbitbrush	CHRY9	2-5	2-5	---	---	2-5	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5
shadscale	ATCO	---	---	2-5	---	---	---
winterfat	EULA5	---	---	---	2-5	---	---
Range site number		028BY010NV	028BY010NV	028BY011NV	028BY006NV	028BY010NV	028BY028NV
Potential production (lb/acre):							
Favorable years		800	800	600	800	800	800
Normal years		600	600	450	600	600	600
Unfavorable years		400	400	250	400	400	400

1009--PYRAT-TULASE-WINTERMUTE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PYRAT	TULASE	WINTERMUTE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	40-50	15-25	40-50	2-10	15-25
Sandberg bluegrass	POSE	2-5	2-5	---	---	---	---	---
basin wildrye	ELCI2	---	---	---	5-10	---	10-20	---
bottlebrush squirreltail	SIHY	2-8	2-8	2-5	2-8	2-5	---	5-10
needleandthread	STCO4	10-20	10-20	---	---	---	---	---
other perennial grasses	PPGG	---	---	---	---	---	---	2-5
wheatgrass	AGROP2	---	---	---	5-15	---	---	---
globemallow	SPHA2	---	---	1-5	---	1-5	---	2-5
Wyoming big sagebrush	ARTRW	25-35	25-35	---	30-45	---	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30	---
black greasewood	SAVE4	---	---	---	---	---	30-40	---
bud sagebrush	ARSP5	---	---	---	---	---	---	2-8
fourwing saltbush	ATCA2	---	---	---	---	---	---	2-5
rabbitbrush	CHRY9	2-5	2-5	---	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5	---
shadscale	ATCO	---	---	25-35	---	25-35	---	---
winterfat	EULA5	---	---	5-10	2-8	5-10	---	40-50
Range site number		028BY010NV	028BY010NV	028BY075NV	028BY014NV	028BY075NV	028BY028NV	028BY013NV
Potential production (lb/acre):								
Favorable years		800	800	700	600	700	800	700
Normal years		600	600	500	450	500	600	500
Unfavorable years		400	400	300	200	300	400	350

1020--OKAN-EASTWELL-BLIMO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		OKAN	EASTWELL	BLIMO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-35	20-30	20-35	X	15-25	2-8
Sandberg bluegrass	POSE	2-5	2-8	2-5	2-8	---	---	---
basin wildrye	ELCI2	---	---	---	---	X	---	---
bluegrass	POA++	---	---	---	---	X	---	---
bottlebrush squirreltail	SIBY	2-8	2-5	2-8	2-5	X	5-10	2-5
needleandthread	STCO4	10-20	5-15	10-20	5-15	X	---	---
other perennial grasses	PPGG	---	---	---	---	---	2-5	---
western wheatgrass	AGSM	---	---	---	---	---	---	5-15
globemallow	SPHAE	---	---	---	---	---	2-5	---
thickstem wildcabbage	CACR11	---	---	---	---	X	---	---
Utah juniper	JUOS	---	---	---	---	X	---	---
Wyoming big sagebrush	ARTRW	25-35	---	25-35	---	---	---	---
antelope bitterbrush	POTR2	---	---	---	---	X	---	---
black sagebrush	ARARN	---	25-35	---	25-35	X	---	---
bud sagebrush	ARSP5	---	---	---	---	---	2-8	---
downy rabbitbrush	CHVIP4	---	2-5	---	2-5	---	---	---
fourwing saltbush	ATCA2	---	---	---	---	---	2-5	---
rabbitbrush	CHRYS9	2-5	---	2-5	---	---	---	---
shadscale	ATCO	---	2-5	---	2-5	---	---	2-5
sickle saltbush	ATFA	---	---	---	---	---	---	55-65
winterfat	EULA5	---	---	---	---	---	40-50	5-15

Range site number	028BY010NV	028BY011NV	028BY010NV	028BY011NV	028BY083NV	028BY013NV	028BY047NV
Potential production (lb/acre):							
Favorable years	800	600	800	600	300	700	500
Normal years	600	450	600	450	200	500	350
Unfavorable years	400	250	400	250	125	350	200

1023--OKAN-KATELANA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		OKAN	OKAN	KATELANA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	1-5	20-30	20-30	2-5	40-50
Sandberg bluegrass	POSE	2-5	2-5	---	2-5	2-5	---	---
bottlebrush squirreltail	SIHY	2-5	2-8	5-10	2-8	2-8	2-5	2-5
needleandthread	STCO4	10-20	10-20	---	10-20	10-20	---	---
globemallow	SPHA	---	---	---	---	---	---	1-5
Wyoming big sagebrush	ARTRW	25-35	25-35	---	25-35	25-35	---	---
black greasewood	SAVE4	---	---	---	---	---	20-30	---
bud sagebrush	ARSP5	---	---	---	---	---	2-10	---
rabbitbrush	CHRY89	---	2-5	---	2-5	2-5	---	---
shadscale	ATCO	---	---	85-90	---	---	20-50	25-35
winterfat	EULA5	---	---	---	---	---	---	5-10
Range site number		028BY080NV	028BY010NV	028BY073NV	028BY010NV	028BY010NV	028BY074NV	028BY075NV
Potential production (lb/acre):								
Favorable years		600	800	400	800	800	600	700
Normal years		400	600	300	600	600	400	500
Unfavorable years		200	400	200	400	400	200	300

1030--SEGURA-BULLUMP-HUTCHLEY ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		SEGURA	BULLUMP	HUTCHLEY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	---	---	---	---	---	---
Letterman needlegrass	STLE4	---	---	---	---	---	---	50-70
Thurber needlegrass	STTH2	---	---	10-20	---	---	---	---
basin wildrye	ELCI2	---	2-8	---	---	---	---	---
bluebunch wheatgrass	AGSP	10-20	30-40	20-40	20-30	20-30	---	---
bluegrass	POA++	2-8	2-8	5-10	---	2-10	---	2-10
muttongrass	POFE	---	---	---	2-8	---	---	---
needlegrass	STIPA	5-10	5-15	---	5-15	---	---	---
pine needlegrass	STPI2	---	---	2-8	---	---	---	---
arrowleaf balsamroot	BASA3	---	2-5	---	---	---	---	---
goldenweed	HAPLO2	---	---	2-5	---	---	---	---
lupine	LUPIN	---	---	---	---	---	---	2-8
penstemon	PENST	---	---	---	---	---	---	2-5
tapertip hawksbeard	CRAC2	---	2-5	---	---	---	---	---
Utah serviceberry	AMUT	---	2-8	---	---	---	---	---
antelope bitterbrush	PATR2	30-45	2-8	---	---	2-5	---	---
low sagebrush	ARAR8	---	---	---	---	25-35	---	---
mountain big sagebrush	ARVA2	5-15	10-20	---	15-25	---	---	---
sagebrush	ARTEM	---	---	35-45	---	---	---	---
snowberry	SYMPH	---	2-8	---	2-8	---	---	---
curleaf mountainmahogany	CELE3	---	---	---	15-25	---	---	---
Range site number		028BY046NV	028BY015NV	028BY034NV	028BY043NV	028BY037NV	None	028BY051NV
Potential production (lb/acre):								
Favorable years		1200	1500	350	1700	800		700
Normal years		900	1100	200	1300	600		500
Unfavorable years		700	700	100	900	400		300

1040--SEGURA-PIOCHE-CHEN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		SEGURA	PIOCHE	CHEN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	X	---	X	---	---	---
Indian ricegrass	ORHY	---	X	---	X	---	2-5	---
Sandberg bluegrass	POSE	---	X	---	X	---	---	---
Thurber needlegrass	STTH2	15-30	X	---	X	---	---	---
basin wildrye	ELCI2	2-8	X	---	---	---	---	2-8
bluebunch wheatgrass	AGSP	20-40	X	20-30	X	10-20	10-20	30-40
bluegrass	POA++	2-5	---	2-10	---	2-8	2-8	2-8
bottlebrush squirreltail	SIHY	---	X	---	X	---	---	---
muttongrass	POPE	---	---	---	X	---	---	---
needlegrass	STIPA	---	---	---	---	5-15	5-10	5-15
arrowleaf balsamroot	BASA3	---	X	---	X	---	---	2-5
crag aster	ASSC3	2-5	---	---	---	---	---	---
tapertip hawksbeard	CRAC2	2-5	X	---	X	---	---	2-5
Utah serviceberry	AMUT	---	---	---	---	35-45	---	2-8
antelope bitterbrush	PUTR2	5-10	X	2-5	X	---	30-45	2-8
ephedra	EPHED	---	X	---	---	---	---	---
low sagebrush	ARAR8	---	---	25-35	X	---	---	---
mountain big sagebrush	ARVA2	15-25	X	---	---	5-15	5-15	10-20
serviceberry	AMELA	---	X	---	X	---	---	---
snowberry	SYMPH	---	---	---	---	2-8	---	2-8
Utah juniper	JUOS	---	X	---	X	---	---	---
singleleaf pinyon	PIMO	---	X	---	X	---	---	---

Range site number	028BY087NV	028BY062NV	028BY037NV	028BY064NV	028BY026NV	028BY046NV	028BY015NV
Potential production (lb/acre):							
Favorable years	900	700	800	500	1200	1200	1500
Normal years	700	500	600	300	900	900	1100
Unfavorable years	450	300	400	150	700	700	700

1061--PIOCHE-CUCAMUNGO-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PIOCHE	CUCAMUNGO	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3
Canby bluegrass	POCA	X	---	---	---	---	---
Idaho fescue	FEID	---	X	---	---	---	15-25
Indian ricegrass	ORHY	X	---	---	---	---	2-5
Nevada bluegrass	PONE3	---	X	---	---	---	---
Sandberg bluegrass	POSE	X	---	---	---	---	---
Thurber needlegrass	STTH2	X	---	---	---	15-30	10-20
arrowleaf balsamroot	BASA3	X	X	---	---	---	---
basin wildrye	ELCI2	X	X	---	---	2-8	---
bluebunch wheatgrass	AGSP	X	X	---	20-30	20-40	5-15
bluegrass	POA++	---	---	---	2-10	2-5	20-30
bottlebrush squirreltail	SIHY	X	---	---	---	---	2-8
needlegrass	STIPA	---	---	---	---	---	2-8
arrowleaf balsamroot	BASA3	X	X	---	---	---	---
crag aster	ASSC3	---	---	---	---	2-5	---
tapertip hawksbeard	CRAC2	X	X	---	---	2-5	---
Utah serviceberry	AMUT	---	X	---	---	---	---
antelope bitterbrush	PUTR2	X	X	---	2-5	5-10	2-5
black sagebrush	ARARN	---	---	---	---	---	25-35
curlleaf mountainmahogany	CELE3	---	X	---	---	---	---
ephedra	EPHED	X	---	---	---	---	---
low sagebrush	ARAR8	---	---	---	25-35	---	---
mountain big sagebrush	ARVA2	X	X	---	---	15-25	5-15
serviceberry	AMELA	X	---	---	---	---	---
snowberry	SYMPH	---	X	---	---	---	2-8
Utah juniper	JUOS	X	---	---	---	---	---
singleleaf pinyon	PIMO	X	X	---	---	---	---

Range site number	028BY062NV	025XY061NV	None	028BY037NV	028BY087NV	025XY071NV	028BY093NV
Potential production (lb/acre):							
Favorable years	700	500		800	900	1700	800
Normal years	500	375		600	700	1300	600
Unfavorable years	300	250		400	450	900	400

1070--ZAFOD-AUTOMAL-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ZAFOD	AUTOMAL	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-35	15-25	20-35	15-25	---	2-5
Sandberg bluegrass	POSE	2-5	2-8	---	2-8	---	---	---
Thurber needlegrass	STTH2	---	---	---	---	---	---	30-40
bluebunch wheatgrass	AGSP	---	---	---	---	---	---	15-30
bluegrass	FOA+	---	---	---	---	---	---	2-8
bottlebrush squirreltail	SIHY	2-8	2-5	2-5	2-5	5-10	---	---
needleandthread	STCO4	10-20	5-15	5-10	5-15	---	---	2-8
other perennial grasses	PPGG	---	---	---	---	2-5	---	---
arrowleaf balsamroot	BASA3	---	---	---	---	---	---	2-5
globemallow	SPHA2	---	---	---	---	2-5	---	---
scarlet globemallow	SPCO	---	---	2-5	---	---	---	---
tapertip hawksbeard	CRAC2	---	---	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	25-35	---	20-35	---	---	---	2-10
antelope bitterbrush	PUTR2	---	---	---	---	---	---	2-10
big sagebrush	ARTR2	---	---	---	---	---	---	15-25
black sagebrush	ARARN	---	25-35	---	25-35	---	---	---
bud sagebrush	ARSP5	---	---	---	---	2-8	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	2-5	---	---	---
fourwing saltbush	ATCA2	---	---	---	---	2-5	---	---
rabbitbrush	CHRS9	2-5	---	---	---	---	---	---
shadscale	ATCO	---	2-5	2-5	2-5	---	---	---
spiny hopsage	GRSP	---	---	5-20	---	---	---	---
winterfat	EULA5	---	---	---	---	40-50	---	---
Range site number		028BY010NV	028BY011NV	028BY052NV	028BY011NV	028BY013NV	None	028BY007NV
Potential production (lb/acre):								
Favorable years		800	600	800	600	700		1000
Normal years		600	450	600	450	500		800
Unfavorable years		400	250	450	250	350		600

1080--COTANT-SEGURA ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		COTANT	SEGURA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	---	---	X	---	---	---
Thurber needlegrass	STTH2	---	15-30	X	---	---	---
alpine timothy	PHAL2	---	---	---	---	---	2-5
basin wildrye	ELCY2	---	2-8	X	2-8	---	---
bluebunch wheatgrass	AGSP	20-30	20-40	X	30-40	20-30	---
bluegrass	POA++	2-10	2-5	X	2-8	2-10	---
bottlebrush squirreltail	SIHY	---	---	X	---	---	---
meadow barley	HOBR2	---	---	---	---	---	2-5
needlegrass	STIPA	---	---	---	5-15	---	---
rush	JunCU	---	---	---	---	---	2-8
sedge	CAREX	---	---	---	---	---	20-30
tufted hairgrass	DecE	---	---	---	---	---	30-50
arrowleaf balsamroot	BASA3	---	---	X	2-5	---	---
crag aster	ASSC3	---	2-5	---	---	---	---
tapertip hawksbeard	CRAC2	---	2-5	X	2-5	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---
Utah serviceberry	AMUT	---	---	---	2-8	---	---
antelope bitterbrush	PUTR2	2-5	5-10	X	2-8	2-5	---
black sagebrush	ARARN	---	---	X	---	---	---
curleaf mountainmahogany	CELE3	---	---	X	---	---	---
low sagebrush	ARAR8	25-35	---	---	---	25-35	---
mountain big sagebrush	ARVA2	---	15-25	---	10-20	---	---
serviceberry	AMELA	---	---	X	---	---	---
snowberry	SYMPH	---	---	---	2-8	---	---
Utah juniper	JUOS	---	---	X	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---

Range site number	028BY037NV	028BY087NV	028BY060NV	028BY015NV	028BY037NV	028BY022NV
Potential production (lb/acra):						
Favorable years	800	900	500	1500	800	3200
Normal years	600	700	300	1100	600	2000
Unfavorable years	400	450	250	700	400	1400

1111--PARISA GRAVELLY LOAM, 2 TO 8 PERCENT SLOPES

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions		
		Soil name or Inclusion number--		
		PARISA	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	20-30	20-35	20-30
Sandberg bluegrass	POSE	2-5	2-8	2-5
bottlebrush squirreltail	SIHY	2-8	2-5	2-8
needleandthread	STCO4	10-20	5-15	10-20
Wyoming big sagebrush	ARTRW	25-35	---	25-35
black sagebrush	ARARN	---	25-35	---
downy rabbitbrush	CHVIP4	---	2-5	---
rabbitbrush	CHRY99	2-5	---	2-5
shadscale	ATCO	---	2-5	---
Range site number		028BY010NV	028BY011NV	028BY010NV
Potential production (lb/acre):				
Favorable years		800	600	800
Normal years		600	450	600
Unfavorable years		400	250	400

1120--OKAN-AUTOMAL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		OKAN	AUTOMAL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	20-35	10-20	5-10	20-30
Sandberg bluegrass	POSE	2-5	2-8	---	---	2-5
basin wildrye	ELCI2	---	---	---	10-20	---
bluebunch wheatgrass	AGSP	---	---	20-40	---	---
bottlebrush squirreltail	SIHY	2-8	2-5	---	---	2-5
muttongrass	POPE	---	---	2-8	---	---
needleandthread	STCO4	10-20	5-15	2-5	---	10-20
thickspike wheatgrass	AGDA	---	---	---	5-10	---
Wyoming big sagebrush	ARTRW	25-35	---	---	25-35	25-35
black sagebrush	ARARN	---	25-35	20-30	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---
rabbitbrush	CHRY9	2-5	---	---	---	---
shadscale	ATCO	---	2-5	---	---	---
winterfat	EULA5	---	---	2-5	---	---
Range site number		028BY010NV	028BY011NV	028BY006NV	028BY045NV	028BY080NV
Potential production (lb/acre):						
Favorable years		800	600	800	1000	600
Normal years		600	450	600	800	400
Unfavorable years		400	250	400	600	200

1150--ADOBE-WARDBAY-HAUNCHEE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ADOBE	WARDBAY	HAUNCHEE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	---	2-5	---	---	---
Cusick bluegrass	POCU3	---	---	---	---	---	---	5-10
Idaho fescue	FEID	5-30	5-15	---	2-10	---	---	50-65
Indian ricegrass	ORHY	---	---	2-5	---	---	---	---
Nevada bluegrass	PONE3	---	---	---	2-5	---	---	---
basin wildrye	ELCI2	---	2-8	---	---	---	---	---
bluebunch wheatgrass	AGSP	---	15-25	10-20	2-5	---	30-45	2-5
bluegrass	FOA++	5-15	---	---	---	---	---	---
mountain brome	BRCA5	---	5-10	---	5-15	---	---	---
muttongrass	POPE	---	---	2-8	---	---	5-10	---
needlegrass	STIPA	---	---	5-10	---	---	---	---
pine needlegrass	STPI2	---	---	---	---	---	2-8	---
slender wheatgrass	AGTR	---	---	---	5-15	---	---	---
spike-fescue	LEKI2	---	---	---	2-10	---	---	---
goldenweed	HAPLO2	2-5	---	---	---	---	2-8	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	2-5	---
Utah serviceberry	AMUT	---	2-8	---	1-5	---	---	---
antelope bitterbrush	PUTR2	---	2-10	---	1-5	---	---	---
black sagebrush	ARARN	---	---	---	---	---	35-45	---
common chokecherry	PRVI	---	---	---	1-5	---	---	---
mountain big sagebrush	ARVA2	---	10-20	15-25	5-15	---	---	2-8
sagebrush	ARTEM	30-35	---	---	---	---	---	---
snowberry	SYMPE	---	---	2-8	2-15	---	---	---
curlleaf mountainmahogany	CELE3	---	---	30-50	---	---	---	---
Range site number		025XY024NV	025XY042NV	028BY032NV	025XY004NV	None	028BY048NV	025XY010NV
Potential production (lb/acre):								
Favorable years		400	700	1300	2800		350	1200
Normal years		275	500	900	1800		200	800
Unfavorable years		150	300	600	1200		100	600

1161--PHARO-BOBS-POOKALOO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PHARO	BOBS	POOKALOO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	---	---	---	X	---	---
Indian ricegrass	ORHY	10-20	5-15	X	---	X	10-20	5-10
Sandberg bluegrass	POSE	---	---	---	---	X	---	---
Thurber needlegrass	STTH2	---	---	X	---	X	---	---
basin wildrye	ELCI2	---	2-5	X	2-8	X	---	10-20
bluebunch wheatgrass	AGSP	20-40	30-50	X	40-50	X	20-40	---
bluegrass	POA++	---	2-8	X	5-10	---	2-5	---
bottlebrush squirreltail	SIHY	---	---	X	---	X	---	---
muttongrass	POFE	2-8	---	---	---	---	---	---
needleandthread	STCO4	2-5	2-5	---	---	---	2-5	---
thickspike wheatgrass	AGDA	---	---	---	---	---	---	5-10
arrowleaf balsamroot	BASA3	---	---	X	---	X	---	---
goldenweed	HAPLO2	---	---	---	---	---	2-5	---
tapertip hawksbeard	CRAC2	---	---	X	---	X	2-5	---
Stansbury cliffrose	COMES	---	---	X	---	---	---	---
Utah serviceberry	AMUT	---	---	---	1-5	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	---	25-35
antelope bitterbrush	POTR2	---	---	X	2-10	X	---	---
big sagebrush	ARTR2	---	20-30	---	---	---	---	---
black sagebrush	ARARN	20-30	---	X	---	---	25-35	---
curlleaf mountainmahogany	CELE3	---	---	X	---	---	---	---
ephedra	EPHED	---	---	---	---	X	---	---
mountain big sagebrush	ARVA2	---	---	---	10-20	X	---	---
serviceberry	AMELA	---	---	X	---	X	---	---
shadscale	ATCO	---	---	---	---	---	2-5	---
snowberry	SYMPH	---	---	---	2-5	---	---	---
winterfat	EULA5	2-5	---	---	---	---	2-5	---
Utah juniper	JUOS	---	---	X	---	X	---	---
singleleaf pinyon	FIMO	---	---	X	---	X	---	---

Range site number	028BY006NV	028BY094NV	028BY060NV	028BY088NV	028BY062NV	028BY008NV	028BY045NV
Potential production (lb/acre):							
Favorable years	800	800	500	1100	700	600	1000
Normal years	600	600	300	900	500	400	800
Unfavorable years	400	400	250	700	300	200	600

1171--PYRAT-AUTOMAL-GRAVIER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PYRAT	AUTOMAL	GRAVIER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	OREY	20-30	20-35	40-50	20-30	20-30	20-30	15-25
Sandberg bluegrass	POSE	2-5	2-8	---	2-5	2-5	2-5	---
bottlebrush squirreltail	SIEY	2-8	2-5	2-5	2-8	2-5	2-8	5-10
needleandthread	STCO4	10-20	5-15	---	10-20	10-20	10-20	---
other perennial grasses	PPGG	---	---	---	---	---	---	2-5
globemallow	SPHA	---	---	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	25-35	---	---	25-35	25-35	25-35	---
black sagebrush	ARARN	---	25-35	---	---	---	---	---
bud sagebrush	ARSP5	---	---	5-15	---	---	---	2-8
downy rabbitbrush	CHVIP4	---	2-5	---	---	---	---	---
fourwing saltbush	ATCA2	---	---	---	---	---	---	2-5
rabbitbrush	CHRS9	2-5	---	---	2-5	---	2-5	---
shadscale	ATCO	---	2-5	---	---	---	---	---
winterfat	EULA5	---	---	20-30	---	---	---	40-50
Range site number		028BY010NV	028BY011NV	028BY084NV	028BY010NV	028BY080NV	028BY010NV	028BY013NV
Potential production (lb/acre):								
Favorable years		800	600	900	800	600	800	700
Normal years		600	450	700	600	400	600	500
Unfavorable years		400	250	400	400	200	400	350

1172--PYRAT-AUTOMAL, VERY STONY-AUTOMAL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		PYRAT	AUTOMAL	AUTOMAL	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-35	20-35	20-30	10-20	2-10	---
Sandberg bluegrass	POSE	2-5	2-8	2-8	2-5	---	---	---
alkali sacaton	SPAI	---	---	---	---	---	---	15-40
basin wildrye	ELCI2	---	---	---	---	---	10-20	40-60
bluebunch wheatgrass	AGSP	---	---	---	---	20-40	---	---
bottlebrush squirreltail	SIHY	2-8	2-5	2-5	2-8	---	---	---
inland saltgrass	DISPS2	---	---	---	---	---	---	2-5
muttongrass	POFE	---	---	---	---	2-8	---	---
needleandthread	STCO4	10-20	5-15	5-15	10-20	2-5	---	---
western wheatgrass	AGSM	---	---	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	25-35	---	---	25-35	---	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30	---
black greasewood	SAVE4	---	---	---	---	---	30-40	5-15
black sagebrush	ARARN	---	25-35	25-35	---	20-30	---	---
downy rabbitbrush	CHVIP4	---	2-5	2-5	---	---	---	---
rabbitbrush	CHRS9	2-5	---	---	2-5	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5	2-5
shadscale	ATCO	---	2-5	2-5	---	---	---	---
winterfat	EULA5	---	---	---	---	2-5	---	---

Range site number	028BY010NV	028BY011NV	028BY011NV	028BY010NV	028BY006NV	028BY028NV	028BY004NV
Potential production (lb/acre):							
Favorable years	800	600	600	800	800	800	2200
Normal years	600	450	450	600	600	600	1500
Unfavorable years	400	250	250	400	400	400	800

1173--PYRAT-AUTOMAL ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PYRAT	AUTOMAL	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	20-35	5-10	20-30	2-10
Sandberg bluegrass	POSE	2-5	2-8	---	2-5	---
basin wildrye	ELCI2	---	---	10-20	---	10-20
bottlebrush squirreltail	SIHY	2-8	2-5	---	2-8	---
needleandthread	STCO4	10-20	5-15	---	10-20	---
thickspike wheatgrass	AGDA	---	---	5-10	---	---
Wyoming big sagebrush	ARTRW	25-35	---	25-35	25-35	---
big sagebrush	ARTR2	---	---	---	---	20-30
black greasewood	SAVE4	---	---	---	---	30-40
black sagebrush	ARARN	---	25-35	---	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---
rabbitbrush	CHRY89	2-5	---	---	2-5	---
rubber rabbitbrush	CHNA2	---	---	---	---	2-5
shadscale	ATCO	---	2-5	---	---	---
Range site number		028BY010NV	028BY011NV	028BY045NV	028BY010NV	028BY028NV
Potential production (lb/acre):						
Favorable years		800	600	1000	800	800
Normal years		600	450	800	600	600
Unfavorable years		400	250	600	400	400

1174--PYRAT-TOSSER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		PYRAT	TOSSER	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	20-35	2-5	20-30	40-50
Sandberg bluegrass	POSE	2-5	2-8	---	2-5	---
Thurber needlegrass	STTH2	---	---	30-40	---	---
bluebunch wheatgrass	AGSP	---	---	15-30	---	---
bluegrass	POA++	---	---	2-8	---	---
bottlebrush squirreltail	SIHY	2-8	2-5	---	2-8	2-5
needleandthread	STCO4	10-20	5-15	2-8	10-20	---
arrowleaf balsamroot	BASA3	---	---	2-5	---	---
globemallow	SPHA8	---	---	---	---	1-5
tapertip hawksbeard	CRAC2	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	25-35	---	---	25-35	---
antelope bitterbrush	PUTR2	---	---	2-10	---	---
big sagebrush	ARTR2	---	---	15-25	---	---
black sagebrush	ARARN	---	25-35	---	---	---
downy rabbitbrush	CHVIP4	---	2-5	---	---	---
rabbitbrush	CHRY9	2-5	---	---	2-5	---
shadscale	ATCO	---	2-5	---	---	25-35
winterfat	EULA5	---	---	---	---	5-10
Range site number		028BY010NV	028BY011NV	028BY007NV	028BY010NV	028BY075NV
Potential production (lb/acre):						
Favorable years		800	600	1000	800	700
Normal years		600	450	800	600	500
Unfavorable years		400	250	600	400	300

1180--HAUNCHEE-CAVEHILL ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		HAUNCHEE	CAVEHILL	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	15-25	X	---	---	5-15	---
Indian ricegrass	ORHY	---	---	---	---	---	2-5
Letterman needlegrass	STLE4	---	---	X	---	---	---
Nevada bluegrass	PONE3	---	X	---	---	---	---
arrowleaf balsamroot	BASA3	---	X	---	---	---	---
basin wildrye	ELCI2	---	X	---	---	2-8	---
bluebunch wheatgrass	AGSP	5-15	X	X	30-45	15-25	10-20
bluegrass	POA++	2-5	---	---	---	---	---
mountain brome	BRCAS	---	---	---	---	5-10	---
muttongrass	POPE	---	---	X	5-10	---	2-8
needlegrass	STIPA	2-8	---	---	---	---	5-10
pine needlegrass	STPI2	---	---	---	2-8	---	---
sedge	CAREX	---	---	X	---	---	---
spike-fescue	LEKI2	---	---	X	---	---	---
creeping barberry	BERE	---	---	X	---	---	---
goldenweed	HAPLO2	---	---	X	2-8	---	---
tapertip hawksbeard	CRAC2	---	X	---	---	---	---
Douglas rabbitbrush	CHVI8	---	---	---	2-5	---	---
Utah serviceberry	AMUT	---	X	---	---	2-8	---
antelope bitterbrush	PUTR2	2-5	X	---	---	2-10	---
black sagebrush	ARARN	---	---	---	35-45	---	---
common juniper	JUCO6	---	---	X	---	---	---
curlleaf mountainmahogany	CELE3	---	X	---	---	---	30-50
mountain big sagebrush	ARVA2	5-15	X	X	---	10-20	15-25
serviceberry	AMELA	---	---	X	---	---	---
snowberry	SYMPH	2-8	X	---	---	---	2-8
bristlecone pine	PIAR	---	---	X	---	---	---
curlleaf mountainmahogany	CELE3	---	X	---	---	---	30-50
limber pine	PIFL2	---	---	X	---	---	---
singleleaf pinyon	PIMO	---	X	---	---	---	---
white fir	ABCO	---	---	X	---	---	---

Range site number	025XY071NV	025XY061NV	028BY063NV	028BY048NV	025XY042NV	028BY032NV
Potential production (lb/acre):						
Favorable years	1700	500	800	350	700	1300
Normal years	1300	375	500	200	500	900
Unfavorable years	900	250	300	100	300	600

1181--HAUNCHEE-HALACAN-WARDBAY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HAUNCHEE	HALACAN	WARDBAY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	---	---	---	2-5	---
Cusick bluegrass	POCU3	---	---	---	---	---	---	5-10
Idaho fescue	FEID	---	---	30-40	---	---	2-10	50-65
Letterman needlegrass	STLE4	---	---	---	X	---	---	---
Nevada bluegrass	PONE3	---	---	2-5	---	---	2-5	---
basin wildrye	ELCI2	---	---	2-10	---	---	---	---
bluebunch wheatgrass	AGSP	20-30	30-45	15-30	X	---	2-5	2-5
mountain brome	BRCA5	---	---	---	---	---	5-15	---
muttongrass	POPE	2-8	5-10	---	X	---	---	---
needlegrass	STPA	5-15	---	---	---	---	---	---
pine needlegrass	STPI2	---	2-8	---	---	---	---	---
sedge	CAREX	---	---	---	X	---	---	---
slender wheatgrass	AGTR	---	---	---	---	---	5-15	---
spike-fescue	LEKI2	---	---	---	X	---	2-10	---
arrowleaf balsamroot	BASA3	---	---	2-5	---	---	---	---
creeping barberry	BERE	---	---	---	X	---	---	---
goldenweed	HAPLO2	---	2-8	---	X	---	---	---
tapertip hawkbeard	CRAC2	---	---	2-5	---	---	---	---
Douglas rabbitbrush	CHVI8	---	2-5	---	---	---	---	---
Utah serviceberry	AMUT	---	---	---	---	---	1-5	---
antelope bitterbrush	POTR2	---	---	5-10	---	---	1-5	---
black sagebrush	ARARN	---	35-45	---	---	---	---	---
common chokecherry	PRVI	---	---	---	---	---	1-5	---
common juniper	JUCO6	---	---	---	X	---	---	---
mountain big sagebrush	ARVA2	15-25	---	10-20	X	---	5-15	2-8
serviceberry	AMELA	---	---	---	X	---	---	---
snowberry	SYMPH	2-8	---	---	---	---	2-15	---
bristlecone pine	PIAR	---	---	---	X	---	---	---
curlleaf mountainmahogany	CELE3	15-25	---	---	---	---	---	---
limber pine	PIPL2	---	---	---	X	---	---	---
white fir	ABCO	---	---	---	X	---	---	---
Range site number		028BY043NV	028BY048NV	025XY012NV	028BY063NV	None	025XY004NV	025XY010NV
Potential production (lb/acre):								
Favorable years		1700	350	1400	800		2800	1200
Normal years		1300	200	1000	500		1800	800
Unfavorable years		900	100	700	300		1200	600

1190--UPATAD-ATLOW ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		UPATAD	ATLOW	UPATAD	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	20-30	X	5-10	---	---	2-5
Scribner needlegrass	STSC2	---	---	---	---	---	---	2-10
Thurber needlegrass	STTH2	10-20	15-25	X	20-40	15-30	---	---
basin wildrye	ELCI2	---	---	X	---	2-8	---	---
bluebunch wheatgrass	AGSP	20-30	---	X	---	20-40	---	---
bluegrass	POA++	2-8	---	X	2-5	2-5	---	---
bottlebrush squirreltail	SIHY	---	---	X	---	---	---	---
needleandthread	STCO4	---	2-8	---	5-10	---	---	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	---	---
crag aster	ASSC3	---	---	---	2-5	2-5	---	---
goldenweed	HAPLO2	---	---	---	---	---	---	2-5
tapertip hawksbeard	CRAC2	---	---	X	2-5	2-5	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	20-30	---	---	---
antelope bitterbrush	PUTR2	---	---	X	---	5-10	---	---
black sagebrush	ARARN	25-35	20-35	X	---	---	---	2-8
curlleaf mountainmahogany	CELE3	---	---	X	---	---	---	---
desert snowberry	SYLO	---	---	---	---	---	---	2-8
littleleaf mountainmahogany	CEIN7	---	---	---	---	---	---	60-70
mountain big sagebrush	ARVA2	---	---	---	---	15-25	---	---
serviceberry	AMELA	---	---	X	---	---	---	---
spiny hopsage	GRSP	---	---	---	2-5	---	---	---
Utah juniper	JUOS	---	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	---	X	---	---	---	---

Range site number	028BY093NV	028BY089NV	028BY060NV	028BY086NV	028BY087NV	None	028BY066NV
Potential production (lb/acre):							
Favorable years	800	450	500	800	900		1300
Normal years	600	300	300	600	700		1000
Unfavorable years	400	150	250	350	450		800

1191--UPATAD-PIOCHE-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		UPATAD	PIOCHE	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3
Canby bluegrass	POCA	---	X	---	---	---	---
Indian ricegrass	ORHY	2-5	X	---	---	2-5	5-10
Sandberg bluegrass	POSE	---	X	---	---	---	---
Thurber needlegrass	STH2	10-20	X	---	15-30	30-40	---
basin wildrye	ELCI2	---	X	---	2-8	---	10-20
bluebunch wheatgrass	AGSP	20-30	X	---	20-40	15-30	---
bluegrass	POA++	2-8	---	---	2-5	2-8	---
bottlebrush squirreltail	SIHY	---	X	---	---	---	---
needleandthread	STCO4	---	---	---	---	2-8	---
thickspike wheatgrass	AGDA	---	---	---	---	---	5-10
arrowleaf balsamroot	BASA3	---	X	---	---	2-5	---
crag aster	ASSC3	---	---	---	2-5	---	---
tapertip hawksbeard	CRAC2	---	X	---	2-5	2-5	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	25-35
antelope bitterbrush	PUTR2	---	X	---	5-10	2-10	---
big sagebrush	ARTR2	---	---	---	---	15-25	---
black sagebrush	ARARN	25-35	---	---	---	---	---
ephedra	EPHED	---	X	---	---	---	---
mountain big sagebrush	ARVA2	---	X	---	15-25	---	---
serviceberry	AMELA	---	X	---	---	---	---
Utah juniper	JUOS	---	X	---	---	---	---
singleleaf pinyon	PIMO	---	X	---	---	---	---
Range site number		028BY093NV	028BY062NV	None	028BY087NV	028BY007NV	028BY045NV
Potential production (lb/acre):							
Favorable years		800	700		900	1000	1000
Normal years		600	500		700	800	800
Unfavorable years		400	300		450	600	600

1200--HARDOL-HARDZEM-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HARDOL	HARDZEM	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	---	---	X	---	---	---
Indian ricegrass	ORRY	2-5	---	---	---	X	---	---
Letterman needlegrass	STLE4	---	X	---	---	---	---	---
Sandberg bluegrass	POSE	---	---	---	X	---	---	---
Thurber needlegrass	STTH2	5-10	---	---	---	X	---	---
basin wildrye	ELCY2	---	---	---	X	X	---	---
bluebunch wheatgrass	AGSP	5-10	X	---	X	X	20-30	30-45
bluegrass	POA++	2-8	---	---	---	X	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	X	X	---	---
muttongrass	POPE	---	X	---	X	---	2-8	5-10
needlegrass	STIPA	---	---	---	---	---	5-15	---
pine needlegrass	STPI2	---	---	---	---	---	---	2-8
sedge	CAREX	---	X	---	---	---	---	---
spike-fescue	LEKI2	---	X	---	---	---	---	---
arrowleaf balsamroot	BASA3	---	---	---	X	X	---	---
creeping barberry	BERE	---	X	---	---	---	---	---
goldenweed	HAPLO2	---	X	---	---	---	---	2-8
tapertip hawksbeard	CRAC2	---	---	---	X	X	---	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	---	2-5
Stansbury cliffrose	COMES	---	---	---	---	X	---	---
antelope bitterbrush	PUTR2	---	---	---	X	X	---	---
black sagebrush	ARARN	---	---	---	---	X	---	35-45
common juniper	JUCO6	---	X	---	---	---	---	---
curlleaf mountainmahogany	CELE3	50-70	---	---	X	X	15-25	---
mountain big sagebrush	ARVA2	2-5	X	---	X	---	15-25	---
serviceberry	AMELA	---	X	---	X	X	---	---
snowberry	SYMPH	---	---	---	X	---	2-8	---
Utah juniper	JUOS	---	---	---	X	X	---	---
bristlecone pine	PIAR	---	X	---	---	---	---	---
curlleaf mountainmahogany	CELE3	50-70	---	---	X	X	15-25	---
limber pine	PIPL2	---	X	---	---	---	---	---
singleleaf pinyon	PIMO	---	---	---	X	X	---	---
white fir	ABCO	---	X	---	---	---	---	---

Range site number	028BY042NV	028BY063NV	None	028BY058NV	028BY060NV	028BY043NV	028BY048NV
Potential production (lb/acre):							
Favorable years	3000	800		500	500	1700	350
Normal years	2400	500		300	300	1300	200
Unfavorable years	1700	300		200	250	900	100

1201--HARDOL-ROCK OUTCROP-WARDBAY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HARDOL	ROCK OUTCROP	WARDBAY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	---	5-15	---	---	X	---
Indian ricegrass	ORHY	2-5	---	---	---	---	---	---
Letterman needlegrass	STLE4	---	---	---	---	X	---	---
Sandberg bluegrass	POSE	---	---	---	---	---	X	---
Thurber needlegrass	STTH2	5-10	---	---	---	---	---	---
basin wildrye	ELCI2	---	---	---	---	---	X	---
bluebunch wheatgrass	AGSP	5-10	---	60-80	20-30	X	X	30-45
bluegrass	POA++	2-8	---	---	---	---	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	---	---	X	---
muttongrass	POPE	---	---	---	2-8	X	X	5-10
needlegrass	STIPA	---	---	---	5-15	---	---	---
pine needlegrass	STPI2	---	---	---	---	---	---	2-8
sedge	CAREX	---	---	---	---	X	---	---
spike-fescue	LEKI2	---	---	1-10	---	X	---	---
arrowleaf balsamroot	BASA3	---	---	---	---	---	X	---
creeping barberry	BERE	---	---	---	---	X	---	---
goldenweed	HAPLO2	---	---	---	---	X	---	2-8
tapertip hawksbeard	CRAC2	---	---	---	---	---	X	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	---	2-5
antelope bitterbrush	PUTR2	---	---	---	---	---	X	---
black sagebrush	ARARN	---	---	---	---	---	---	35-45
common juniper	JUCO6	---	---	---	---	X	---	---
curlleaf mountainmahogany	CELE3	50-70	---	---	15-25	---	X	---
mountain big sagebrush	ARVA2	2-5	---	10-20	15-25	X	X	---
serviceberry	AMELA	---	---	---	---	X	X	---
snowberry	SYMPH	---	---	2-8	2-8	---	X	---
Utah juniper	JUOS	---	---	---	---	---	X	---
bristlecone pine	PIAR	---	---	---	---	X	---	---
curlleaf mountainmahogany	CELE3	50-70	---	---	15-25	---	X	---
limber pine	PIFL2	---	---	---	---	X	---	---
singleleaf pinyon	PIMO	---	---	---	---	---	X	---
white fir	ABCO	---	---	---	---	X	---	---

Range site number	028BY042NV	None	028BY070NV	028BY043NV	028BY063NV	028BY058NV	028BY048NV
Potential production (lb/acre):							
Favorable years	3000		1100	1700	800	500	350
Normal years	2400		900	1300	500	300	200
Unfavorable years	1700		600	900	300	200	100

1210--BLIMO-KUNZLER-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		BLIMO	KUNZLER	LINOYER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	15-25	---	15-25	20-30	40-50	2-10	1-5
Sandberg bluegrass	POSE	---	5-10	---	2-5	---	---	---
basin wildrye	ELCI2	5-10	---	---	---	---	10-20	---
bottlebrush squirreltail	SIHY	2-8	5-15	5-10	2-8	2-5	---	5-10
needleandthread	STCO4	---	---	---	10-20	---	---	---
other perennial grasses	PPGG	---	---	2-5	---	---	---	---
wheatgrass	AGROP2	5-15	---	---	---	---	---	---
globemallow	SPHAE	---	---	2-5	---	1-5	---	---
Wyoming big sagebrush	ARTRW	30-45	60-70	---	25-35	---	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30	---
black greasewood	SAVE4	---	---	---	---	---	30-40	---
bud sagebrush	ARSP5	---	---	2-8	---	---	---	---
fourwing saltbush	ATCA2	---	---	2-5	---	---	---	---
rabbitbrush	CHRY9	---	---	---	2-5	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5	---
shadscale	ATCO	---	---	---	---	25-35	---	85-90
winterfat	EULA5	2-8	---	40-50	---	5-10	---	---

Range site number	028BY014NV	028BY056NV	028BY013NV	028BY010NV	028BY075NV	028BY028NV	028BY073NV
Potential production (lb/acre):							
Favorable years	600	450	700	800	700	800	400
Normal years	450	325	500	600	500	600	300
Unfavorable years	200	150	350	400	300	400	200

1213--BLIMO-THREESEE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		BLIMO	THREESEE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	20-30	10-20	20-30	2-10
Sandberg bluegrass	POSE	2-5	2-5	---	2-5	2-5	---
basin wildrye	ELCI2	---	---	---	---	---	10-20
bottlebrush squirreltail	SIHY	2-8	2-8	10-20	2-5	2-5	---
needleandthread	STCO4	10-20	10-20	---	10-20	10-20	---
globemallow	SPHAE	---	---	2-4	---	---	---
Wyoming big sagebrush	ARTRW	25-35	25-35	---	---	25-35	---
big sagebrush	ARTR2	---	---	---	---	---	20-30
black greasewood	SAVE4	---	---	---	---	---	30-40
black sagebrush	ARARN	---	---	---	35-45	---	---
rabbitbrush	CHRY9	2-5	2-5	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5
shadscale	ATCO	---	---	45-50	2-5	---	---
Range site number		028BY010NV	028BY010NV	028BY009NV	028BY016NV	028BY080NV	028BY028NV
Potential production (lb/acre):							
Favorable years		800	800	500	350	600	800
Normal years		600	600	400	225	400	600
Unfavorable years		400	400	300	100	200	400

1215--BLIMO-ZORRAVISTA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		BLIMO	ZORRAVISTA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	10-25	20-30	10-20	1-5	15-25
Sandberg bluegrass	POSE	2-5	---	2-5	2-5	---	---
bottlebrush squirreltail	SIHY	2-8	---	2-8	2-5	5-10	2-5
needleandthread	STCO4	10-20	2-5	10-20	10-20	---	5-10
other perennial grasses	PPGG	---	2-8	---	---	---	---
thickspike wheatgrass	AGDA	---	5-15	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	25-35	---	25-35	---	---	20-35
big sagebrush	ARTR2	---	30-40	---	---	---	---
black sagebrush	ARARN	---	---	---	35-45	---	---
fourwing saltbush	ATCA2	---	5-15	---	---	---	---
rabbitbrush	CHRY89	2-5	---	2-5	---	---	---
rubber rabbitbrush	CHNA2	---	2-5	---	---	---	---
shadscale	ATCO	---	---	---	2-5	85-90	2-5
spiny hopsage	GRSP	---	5-10	---	---	---	5-20
Range site number		028BY010NV	028BY068NV	028BY010NV	028BY016NV	028BY073NV	028BY052NV
Potential production (lb/acre):							
Favorable years		800	800	800	350	400	800
Normal years		600	500	600	225	300	600
Unfavorable years		400	300	400	100	200	450

1216--BLIMO-IDWAY-MAZUMA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		BLIMO	IDWAY	MAZUMA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	20-30	1-5	20-30	2-8	---	2-10
Sandberg bluegrass	POSE	2-5	2-5	---	2-5	---	5-10	---
basin wildrye	ELCI2	---	---	---	---	---	---	10-20
bottlebrush squirreltail	SIHY	2-8	2-8	5-10	2-8	2-5	5-15	---
needleandthread	STCO4	10-20	10-20	---	10-20	---	---	---
western wheatgrass	AGSM	---	---	---	---	5-15	---	---
Wyoming big sagebrush	ARTRW	25-35	25-35	---	25-35	---	60-70	---
big sagebrush	ARTR2	---	---	---	---	---	---	20-30
black greasewood	SAVE4	---	---	---	---	---	---	30-40
rabbitbrush	CHRY9	2-5	2-5	---	2-5	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	---	2-5
shadscale	ATCO	---	---	85-90	---	2-5	---	---
sickle saltbush	ATFA	---	---	---	---	55-65	---	---
winterfat	EULA5	---	---	---	---	5-15	---	---
Range site number		028BY010NV	028BY010NV	028BY073NV	028BY010NV	028BY047NV	028BY056NV	028BY028NV
Potential production (lb/acre):								
Favorable years		800	800	400	800	500	450	800
Normal years		600	600	300	600	350	325	600
Unfavorable years		400	400	200	400	200	150	400

1220--ONKEYO-ADOBE-POOKALOO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		ONKEYO	ADOBE	POOKALOO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	15-30	---	X	10-20	---	5-15
Thurber needlegrass	STTH2	---	---	X	---	---	---
basin wildrye	ELCI2	---	---	X	---	---	2-5
bluebunch wheatgrass	AGSP	30-40	60-80	X	20-40	20-30	30-50
bluegrass	POA++	5-10	---	X	2-5	---	2-8
bottlebrush squirreltail	SIHY	---	---	X	---	---	---
muttongrass	POPE	---	2-10	---	---	2-8	---
needleandthread	STCO4	---	---	---	2-5	---	2-5
needlegrass	STIPA	---	---	---	---	5-15	---
arrowleaf balsamroot	BASA3	---	---	X	---	---	---
goldenweed	HAPLO2	---	2-5	---	2-5	---	---
tapertip hawkbeard	CRAC2	---	---	X	2-5	---	---
Stansbury cliffrose	COMES	---	---	X	---	---	---
antelope bitterbrush	PUTR2	5-10	---	X	---	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30
black sagebrush	ARARN	---	25-35	X	25-35	---	---
curleaf mountainmahogany	CELE3	---	---	X	---	15-25	---
mountain big sagebrush	ARVA2	15-25	---	---	---	15-25	---
serviceberry	AMELA	---	---	X	---	---	---
shadscale	ATCO	---	---	---	2-5	---	---
snowberry	SYMPH	---	---	---	---	2-8	---
winterfat	EULA5	---	---	---	2-5	---	---
Utah juniper	JUOS	---	---	X	---	---	---
curleaf mountainmahogany	CELE3	---	---	X	---	15-25	---
singleleaf pinyon	PIMO	---	---	X	---	---	---

Range site number	028BY079NV	028BY027NV	028BY060NV	028BY008NV	028BY043NV	028BY094NV
Potential production (lb/acre):						
Favorable years	700	600	500	600	1700	800
Normal years	500	450	300	400	1300	600
Unfavorable years	300	300	250	200	900	400

1230--HARDZEM-HAUNCHEE-WARDBAY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable.
Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HARDZEM	HAUNCHEE	WARDBAY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	---	---	---	2-5	---
Cusick bluegrass	POCU3	---	---	---	---	5-10	---	---
Idaho fescue	FEID	---	---	5-15	---	50-65	2-10	---
Indian ricegrass	ORHY	---	2-5	---	---	---	---	---
Letterman needlegrass	STLE4	X	---	---	---	---	---	40-60
Nevada bluegrass	PONE3	---	---	---	---	---	2-5	---
basin wildrye	ELCI2	---	---	2-8	---	---	---	---
bluebunch wheatgrass	AGSP	X	10-20	15-25	---	2-5	2-5	---
mountain brome	BRCA5	---	---	5-10	---	---	5-15	---
muttongrass	POFE	X	2-8	---	---	---	---	---
needlegrass	STIPA	---	5-10	---	---	---	---	---
sedge	CAREX	X	---	---	---	---	---	---
slender wheatgrass	AGTR	---	---	---	---	---	5-15	---
spike-fescue	LEKI2	X	---	---	---	---	2-10	---
creeping barberry	BERE	X	---	---	---	---	---	---
goldenweed	HAPLO2	X	---	---	---	---	---	---
tailcup lupine	LUCA	---	---	---	---	---	---	20-40
Utah serviceberry	AMUT	---	---	2-8	---	---	1-5	---
antelope bitterbrush	PUTR2	---	---	2-10	---	---	1-5	---
common chokecherry	PRVI	---	---	---	---	---	1-5	---
common juniper	JUCO6	X	---	---	---	---	---	---
mountain big sagebrush	ARVA2	X	15-25	10-20	---	2-8	5-15	---
serviceberry	AMELA	X	---	---	---	---	---	---
snowberry	SYMPH	---	2-8	---	---	---	2-15	---
bristlecone pine	PIAR	X	---	---	---	---	---	---
curleaf mountainmahogany	CELE3	---	30-50	---	---	---	---	---
limber pine	PIFL2	X	---	---	---	---	---	---
white fir	ABCO	X	---	---	---	---	---	---

Range site number	028BY063NV	028BY032NV	025XY042NV	None	025XY010NV	025XY004NV	025XY028NV
Potential production (lb/acre):							
Favorable years	800	1300	700		1200	2800	1700
Normal years	500	900	500		800	1800	1400
Unfavorable years	300	600	300		600	1200	1100

1240--BENIN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		BENIN	BENIN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	2-5	2-8	---
alkali sacaton	SPAI	5-10	5-10	---	---	---
basin wildrye	ELCI2	2-5	2-5	---	---	---
bottlebrush squirreltail	SIHY	---	---	2-5	2-5	5-10
inland saltgrass	DISPS2	2-8	2-8	---	---	---
western wheatgrass	AGSM	---	---	---	5-15	2-5
black greasewood	SAVE4	60-75	60-75	20-30	---	15-25
bud sagebrush	ARSP5	---	---	2-10	---	---
rubber rabbitbrush	CHNA2	2-5	2-5	---	---	---
shadscale	ATCO	2-5	2-5	20-50	2-5	2-5
sickle saltbush	ATFA	---	---	---	55-65	50-60
winterfat	EULA5	---	---	---	5-15	---

Range site number	028BY020NV	028BY020NV	028BY074NV	028BY047NV	028BY097NV
Potential production (lb/acre):					
Favorable years	500	500	600	500	500
Normal years	300	300	400	350	350
Unfavorable years	150	150	200	200	200

1241--BENIN, MOIST-PLAYAS-BENIN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		BENIN	PLAYAS	BENIN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	---	---	---	---	5-10	---	2-5
alkali sacaton	SPAI	---	---	5-10	---	---	---	---
basin wildrye	ELCI2	10-20	---	2-5	2-5	2-5	---	---
bluegrass	POA++	---	---	---	25-40	---	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	---	---	---	2-5
inland saltgrass	DISPS2	2-10	---	2-8	---	---	75-95	---
mat muhly	MURI	---	---	---	2-5	---	---	---
rush	JuncU	---	---	---	5-15	---	---	---
sedge	CAREX	---	---	---	20-30	---	---	---
thickspike wheatgrass	AGDA	---	---	---	---	2-5	---	---
cinquefoil	POTEN	---	---	---	2-5	---	---	---
groundsel	SENEC	---	---	---	2-5	---	---	---
black greasewood	SAVE4	50-60	---	60-75	---	40-60	---	20-30
bud sagebrush	ARSP5	---	---	---	---	---	---	2-10
fourwing saltbush	ATCA2	---	---	---	---	5-10	---	---
rubber rabbitbrush	CHNA2	---	---	2-5	---	---	---	---
shadscale	ATCO	---	---	2-5	---	5-10	---	20-50
Range site number		028BY069NV	None	028BY020NV	028BY001NV	028BY021NV	028BY050NV	028BY074NV
Potential production (lb/acre):								
Favorable years		800		500	4000	400	1200	600
Normal years		600		300	2000	300	1000	400
Unfavorable years		400		150	1200	200	800	200

1250--TECOMar-POOKALOO ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		TECOMar	POOKALOO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	---	---	---	---	X	---
Indian ricegrass	ORHY	10-20	X	---	---	---	---
Sandberg bluegrass	POSE	---	---	---	---	X	---
Thurber needlegrass	STTH2	---	X	---	---	---	---
basin wildrye	ELCI2	---	X	20-40	---	X	---
bluebunch wheatgrass	AGSP	20-40	X	---	40-50	X	---
bluegrass	POA++	2-5	X	5-15	5-10	---	---
bottlebrush squirreltail	SIHY	---	X	---	---	X	---
muttongrass	POPE	---	---	---	---	X	---
needleandthread	STCO4	2-5	---	10-20	---	---	---
thickspike wheatgrass	AGDA	---	---	5-15	---	---	---
arrowleaf balsamroot	BASA3	---	X	---	---	X	---
goldenweed	HAPLO2	2-5	---	---	---	---	---
tapertip hawksbeard	CRAC2	2-5	X	---	---	X	---
Stansbury cliffrose	COMES	---	X	---	---	---	---
Utah serviceberry	AMUT	---	---	---	1-5	---	---
antelope bitterbrush	PUR2	---	X	---	2-10	X	---
big sagebrush	ARTR2	---	---	10-20	---	---	---
black sagebrush	ARARN	25-35	X	---	---	---	---
curleaf mountainmahogany	CELE3	---	X	---	---	X	---
mountain big sagebrush	ARVA2	---	---	---	10-20	X	---
rabbitbrush	CHRY9	---	---	2-5	---	---	---
serviceberry	AMELA	---	X	---	---	X	---
shadscale	ATCO	2-5	---	---	---	---	---
snowberry	SYMPH	---	---	---	2-5	X	---
winterfat	EULA5	2-5	---	---	---	---	---
Utah juniper	JUOS	---	X	---	---	X	---
singleleaf pinyon	PIMO	---	X	---	---	X	---

Range site number	028BY008NV	028BY060NV	028BY082NV	028BY088NV	028BY058NV	None
Potential production (lb/acre):						
Favorable years	600	500	1400	1100	500	
Normal years	400	300	1100	900	300	
Unfavorable years	200	250	900	700	200	

1270--KATELANA-SHEFFIT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		KATELANA	SHEFFIT	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	2-10	---	2-10	2-5	---
alkali sacaton	SPAI	---	---	15-40	---	---	---
basin wildrye	ELCI2	---	10-20	40-60	10-20	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	---	2-5	---
inland saltgrass	DISPS2	---	---	2-5	---	---	---
western wheatgrass	AGSM	---	---	2-5	---	---	---
big sagebrush	ARTR2	---	20-30	---	20-30	---	---
black greasewood	SAVE4	20-30	30-40	5-15	30-40	20-30	---
bud sagebrush	ARSP5	2-10	---	---	---	2-10	---
rubber rabbitbrush	CHNA2	---	2-5	2-5	2-5	---	---
shadscale	ATCO	20-50	---	---	---	20-50	---
Range site number		028BY074NV	028BY028NV	028BY004NV	028BY028NV	028BY074NV	None
Potential production (lb/acre):							
Favorable years		600	800	2200	800	600	
Normal years		400	600	1500	600	400	
Unfavorable years		200	400	800	400	200	

1271--UVADA-RAGTOWN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		UVADA	RAGTOWN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	---	2-10	2-8	5-10	---
alkali sacaton	SPAI	---	---	---	---	---	5-10
basin wildrye	ELCI2	---	---	10-20	---	2-5	2-5
bottlebrush squirreltail	SIHY	2-5	5-10	---	2-5	---	---
inland saltgrass	DISPS2	---	---	---	---	---	2-8
thickspike wheatgrass	AGDA	---	---	---	---	2-5	---
western wheatgrass	AGSM	---	2-5	---	5-15	---	---
big sagebrush	ARTR2	---	---	20-30	---	---	---
black greasewood	SAVE4	20-30	15-25	30-40	---	40-60	60-75
bud sagebrush	ARSP5	2-10	---	---	---	---	---
fourwing saltbush	ATCA2	---	---	---	---	5-10	---
rubber rabbitbrush	CHNA2	---	---	2-5	---	---	2-5
shadscale	ATCO	20-50	2-5	---	2-5	5-10	2-5
sickle saltbush	ATFA	---	50-60	---	55-65	---	---
winterfat	EULA5	---	---	---	5-15	---	---

Range site number	028BY074NV	028BY097NV	028BY028NV	028BY047NV	028BY021NV	028BY020NV
Potential production (lb/acre):						
Favorable years	600	500	800	500	400	500
Normal years	400	350	600	350	300	300
Unfavorable years	200	200	400	200	200	150

1272--KATELANA, COOL-KAWICH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		KATELANA	KAWICH	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-5	5-10	---	10-20
basin wildrye	ELCI2	---	2-5	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	5-15
thickspike wheatgrass	AGDA	---	2-5	---	---
black greasewood	SAVE4	20-30	40-60	---	---
bud sagebrush	ARSP5	2-10	---	---	10-25
fourwing saltbush	ATCA2	---	5-10	---	---
shadscale	ATCO	20-50	5-10	---	40-50
Range site number		028BY074NV	028BY021NV	None	028BY017NV
Potential production (lb/acre):					
Favorable years		600	400		400
Normal years		400	300		300
Unfavorable years		200	200		200

1280--SYCOMAT-KUNZLER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SYCOMAT	KUNZLER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	2-10	2-10	20-30	---	2-5
Sandberg bluegrass	POSE	---	---	---	2-5	---	---
alkali sacaton	SPAI	---	---	---	---	5-10	---
basin wildrye	ELCI2	---	10-20	10-20	---	2-5	---
bottlebrush squirreltail	SIEY	2-5	---	---	2-8	---	2-5
inland saltgrass	DISPS2	---	---	---	---	2-8	---
needleandthread	STCO4	---	---	---	10-20	---	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	---
big sagebrush	ARTR2	---	20-30	20-30	---	---	---
black greasewood	SAVE4	20-30	30-40	30-40	---	60-75	20-30
bud sagebrush	ARSP5	2-10	---	---	---	---	2-10
rabbitbrush	CHRS9	---	---	---	2-5	---	---
rubber rabbitbrush	CHNA2	---	2-5	2-5	---	2-5	---
shadscale	ATCO	20-50	---	---	---	2-5	20-50
Range site number		028BY074NV	028BY028NV	028BY028NV	028BY010NV	028BY020NV	028BY074NV
Potential production (lb/acre):							
Favorable years		600	800	800	800	500	600
Normal years		400	600	600	600	300	400
Unfavorable years		200	400	400	400	150	200

1281--SYCOMAT-MAZUMA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SYCOMAT	MAZUMA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	20-30	2-10	20-30	2-8	20-30
Sandberg bluegrass	POSE	---	---	---	2-5	---	2-5
basin wildrye	ELCI2	---	---	10-20	---	---	---
bottlebrush squirreltail	SIHY	2-5	10-20	---	2-8	2-5	2-8
needleandthread	STCO4	---	---	---	10-20	---	10-20
western wheatgrass	AGSM	---	---	---	---	5-15	---
globemallow	SPHAE	---	2-4	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	25-35
big sagebrush	ARTR2	---	---	20-30	---	---	---
black greasewood	SAVE4	20-30	---	30-40	---	---	---
bud sagebrush	ARSP5	2-10	---	---	---	---	---
rabbitbrush	CHRY59	---	---	---	2-5	---	2-5
rubber rabbitbrush	CHNA2	---	---	2-5	---	---	---
shadscale	ATCO	20-50	45-50	---	---	2-5	---
sickle saltbush	ATFA	---	---	---	---	55-65	---
winterfat	EULA5	---	---	---	---	5-15	---
Range site number		028BY074NV	028BY009NV	028BY028NV	028BY010NV	028BY047NV	028BY010NV
Potential production (lb/acre):							
Favorable years		600	500	800	800	500	800
Normal years		400	400	600	600	350	600
Unfavorable years		200	300	400	400	200	400

1290--HEIST-BLIMO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		HEIST	BLIMO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	40-50	20-30	15-25	20-30	5-10	10-20
Sandberg bluegrass	POSE	---	2-5	---	2-5	---	---
basin wildrye	ELCI2	---	---	---	---	10-20	---
bottlebrush squirreltail	SIHY	2-5	2-8	5-10	2-5	---	5-15
needleandthread	STCO4	---	10-20	---	10-20	---	---
other perennial grasses	PFGG	---	---	2-5	---	---	---
thickspike wheatgrass	AGDA	---	---	---	---	5-10	---
globemallow	SPHAE	---	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	---	25-35	---	25-35	25-35	---
bud sagebrush	ARSP5	5-15	---	2-8	---	---	10-25
fourwing saltbush	ATCA2	---	---	2-5	---	---	---
rabbitbrush	CHRY89	---	2-5	---	---	---	---
shadscale	ATCO	---	---	---	---	---	40-50
winterfat	EULA5	20-30	---	40-50	---	---	---

Range site number	028BY084NV	028BY010NV	028BY013NV	028BY080NV	028BY045NV	028BY017NV
Potential production (lb/acre):						
Favorable years	900	800	700	600	1000	400
Normal years	700	600	500	400	800	300
Unfavorable years	400	400	350	200	600	200

1300--CAVEHILL-HAUNCHEE-HARDZEM ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		CAVEHILL	HAUNCHEE	HARDZEM	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Canby bluegrass	POCA	X	---	---	---	---	---	---
Idaho fescue	FEID	---	---	---	5-15	---	5-30	---
Indian ricegrass	ORHY	---	---	---	---	X	---	---
Letterman needlegrass	STLE4	---	---	X	---	---	---	---
Sandberg bluegrass	POSE	X	---	---	---	---	---	---
Thurber needlegrass	STH2	---	---	---	---	X	---	---
basin wildrye	ELCI2	X	---	---	2-8	X	---	---
bluebunch wheatgrass	AGSP	X	20-30	X	15-25	X	---	---
bluegrass	POA++	---	---	---	---	X	5-15	---
bottlebrush squirreltail	SIBY	X	---	---	---	X	---	---
mountain brome	BRCA5	---	---	---	5-10	---	---	---
muttongrass	POPE	X	2-8	X	---	---	---	5-10
needlegrass	STIPA	---	5-15	---	---	---	---	---
pine needlegrass	STPI2	---	---	---	---	---	---	2-8
sedge	CAREX	---	---	X	---	---	---	---
spike-fescue	LEKI2	---	---	X	---	---	---	---
arrowleaf balsamroot	BASA3	X	---	---	---	X	---	---
creeping barberry	BERE	---	---	X	---	---	---	---
goldenweed	HAPLO2	---	---	X	---	---	2-5	2-8
tapertip hawkbeard	CRAC2	X	---	---	---	X	---	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	---	2-5
Stansbury cliffrose	COMES	---	---	---	---	X	---	---
Utah serviceberry	AMUT	---	---	---	2-8	---	---	---
antelope bitterbrush	PUTR2	X	---	---	2-10	X	---	---
black sagebrush	ARARN	---	---	---	---	X	---	35-45
common juniper	JUCO6	---	---	X	---	---	---	---
curlleaf mountainmahogany	CELE3	X	15-25	---	---	X	---	---
mountain big sagebrush	ARVA2	X	15-25	X	10-20	---	---	---
sagebrush	ARTEM	---	---	---	---	---	30-35	---
serviceberry	AMELA	X	---	X	---	X	---	---
snowberry	SYMPH	X	2-8	---	---	---	---	---
Utah juniper	JUOS	X	---	---	---	X	---	---
bristlecone pine	PIAR	---	---	X	---	---	---	---
curlleaf mountainmahogany	CELE3	X	15-25	---	---	X	---	---
limber pine	PIPL2	---	---	X	---	---	---	---
singleleaf pinyon	PIMO	X	---	---	---	X	---	---
white fir	ABCO	---	---	X	---	---	---	---

Range site number	028BY058NV	028BY043NV	028BY063NV	025XY042NV	028BY060NV	025XY024NV	028BY048NV
Potential production (lb/acre):							
Favorable years	500	1700	800	700	500	400	350
Normal years	300	1300	500	500	300	275	200
Unfavorable years	200	900	300	300	250	150	100

1360--TOBA-APPIAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		TOBA	APPIAN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	2-10	2-5	---
alkali sacaton	SPAI	20-30	5-15	---	---	15-40
basin wildrye	ELCI2	2-5	2-8	10-20	---	40-60
bluegrass	POA++	---	25-50	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	2-5	---
inland saltgrass	DISPS2	---	---	---	---	2-5
mat muhly	MURI	30-40	30-40	---	---	---
rush	JunCU	5-10	---	---	---	---
western wheatgrass	AGSM	---	2-8	---	---	2-5
aster	ASTER	2-5	---	---	---	---
Douglas rabbitbrush	CHVI8	1-5	---	---	---	---
basin big sagebrush	ARTRT	2-5	---	---	---	---
big sagebrush	ARTR2	---	---	20-30	---	---
black greasewood	SAVE4	1-5	---	30-40	20-30	5-15
bud sagebrush	ARSP5	---	---	---	2-10	---
rubber rabbitbrush	CHNA2	5-10	---	2-5	---	2-5
shadscale	ATCO	---	---	---	20-50	---
Range site number		028BY031NV	028BY100NV	028BY028NV	028BY074NV	028BY004NV
Potential production (lb/acre):						
Favorable years		1200	1500	800	600	2200
Normal years		1000	1100	600	400	1500
Unfavorable years		400	700	400	200	800

1370--ORUPA-PLAYAS-BOOFUSS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ORUPA	PLAYAS	BOOFUSS	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	---	---	---	---	2-5	2-10	---
alkali sacaton	SPAI	5-10	---	---	15-40	---	---	---
basin wildrye	ELCI2	2-5	---	10-20	40-60	---	10-20	---
bottlebrush squirreltail	SIHY	---	---	2-5	---	2-5	---	---
inland saltgrass	DISPS2	2-8	---	2-10	2-5	---	---	75-95
western wheatgrass	AGSM	---	---	---	2-5	---	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30	---
black greasewood	SAVE4	60-75	---	50-60	5-15	20-30	30-40	---
bud sagebrush	ARSP5	---	---	---	---	2-10	---	---
rubber rabbitbrush	CHNA2	2-5	---	---	2-5	---	2-5	---
shadscale	ATCO	2-5	---	---	---	20-50	---	---
Range site number		028BY020NV	None	028BY069NV	028BY004NV	028BY074NV	028BY028NV	028BY050NV
Potential production (lb/acre):								
Favorable years		500		800	2200	600	800	1200
Normal years		300		600	1500	400	600	1000
Unfavorable years		150		400	800	200	400	800

1380--HULDERMAN-TOBA-BENIN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		HULDERMAN	TOBA	BENIN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	---	---	2-10	---
alkali sacaton	SPAI	20-30	20-30	5-10	15-40	---	5-15
basin wildrye	ELCI2	2-5	2-5	2-5	40-60	10-20	2-8
bluegrass	POA++	---	---	---	---	---	25-50
inland saltgrass	DISPS2	---	---	2-8	2-5	---	---
mat muhly	MURI	30-40	30-40	---	---	---	30-40
rush	JunCU	5-10	5-10	---	---	---	---
western wheatgrass	AGSM	---	---	---	2-5	---	2-8
aster	ASTER	2-5	2-5	---	---	---	---
Douglas rabbitbrush	CHVI8	1-5	1-5	---	---	---	---
basin big sagebrush	ARTRT	2-5	2-5	---	---	---	---
big sagebrush	ARTR2	---	---	---	---	20-30	---
black greasewood	SAVE4	1-5	1-5	60-75	5-15	30-40	---
rubber rabbitbrush	CHNA2	5-10	5-10	2-5	2-5	2-5	---
shadscale	ATCO	---	---	2-5	---	---	---
Range site number		028BY031NV	028BY031NV	028BY020NV	028BY004NV	028BY028NV	028BY100NV
Potential production (lb/acre):							
Favorable years		1200	1200	500	2200	800	1500
Normal years		1000	1000	300	1500	600	1100
Unfavorable years		400	400	150	800	400	700

1390--WENDANE-MYSOL-TOBA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		WENDANE	MYSOL	TOBA	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	1-5	---	---	2-10	---
alkali sacaton	SPAI	15-40	---	20-30	15-40	---	5-15
basin wildrye	ELCI2	40-60	---	2-5	40-60	10-20	2-8
bluegrass	POA++	---	---	---	---	---	25-50
bottlebrush squirreltail	SIHY	---	5-10	---	---	---	---
inland saltgrass	DISPS2	2-5	---	---	2-5	---	---
mat muhly	MURI	---	---	30-40	---	---	30-40
rush	JunCU	---	---	5-10	---	---	---
western wheatgrass	AGSM	2-5	---	---	2-5	---	2-8
aster	ASTER	---	---	2-5	---	---	---
Douglas rabbitbrush	CHVI8	---	---	1-5	---	---	---
basin big sagebrush	ARTRT	---	---	2-5	---	---	---
big sagebrush	ARTR2	---	---	---	---	20-30	---
black greasewood	SAVE4	5-15	---	1-5	5-15	30-40	---
rubber rabbitbrush	CHNA2	2-5	---	5-10	2-5	2-5	---
shadscale	ATCO	---	85-90	---	---	---	---
Range site number		028BY004NV	028BY073NV	028BY031NV	028BY004NV	028BY028NV	028BY100NV
Potential production (lb/acre):							
Favorable years		2200	400	1200	2200	800	1500
Normal years		1500	300	1000	1500	600	1100
Unfavorable years		800	200	400	800	400	700

1410--THREESEE-TOSSER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		THREESEE	TOSSER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	10-20	15-25	20-30	40-50	2-10
Sandberg bluegrass	POSE	2-5	2-5	---	2-5	---	---
basin wildrye	ELCI2	---	---	---	---	---	10-20
bottlebrush squirreltail	SIHY	2-8	2-5	2-5	2-8	2-5	---
needleandthread	STCO4	10-20	10-20	5-10	10-20	---	---
scarlet globemallow	SPCO	---	---	2-5	---	---	---
Wyoming big sagebrush	ARTRW	25-35	---	20-35	25-35	---	---
big sagebrush	ARTR2	---	---	---	---	---	20-30
black greasewood	SAVE4	---	---	---	---	---	30-40
black sagebrush	ARARN	---	35-45	---	---	---	---
bud sagebrush	ARSP5	---	---	---	---	5-15	---
rabbitbrush	CHRY59	2-5	---	---	2-5	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	---	2-5
shadscale	ATCO	---	2-5	2-5	---	---	---
spiny hopsage	GRSP	---	---	5-20	---	---	---
winterfat	EULA5	---	---	---	---	20-30	---
Range site number		028BY010NV	028BY016NV	028BY052NV	028BY010NV	028BY084NV	028BY028NV
Potential production (lb/acre):							
Favorable years		800	350	800	800	900	800
Normal years		600	225	600	600	700	600
Unfavorable years		400	100	450	400	400	400

1411--THREESEE-LINOYER-OKAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		THREESEE	LINOYER	OKAN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	40-50	20-30	---	15-25	15-25	10-20
Sandberg bluegrass	POSE	2-5	---	2-5	5-10	---	---	2-5
bottlebrush squirreltail	SIHY	2-8	2-5	2-8	5-15	5-10	2-5	2-5
needleandthread	STCO4	10-20	---	10-20	---	---	5-10	10-20
other perennial grasses	PPGG	---	---	---	---	2-5	---	---
globemallow	SPHAE	---	---	---	---	2-5	---	---
scarlet globemallow	SPCO	---	---	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	25-35	---	25-35	60-70	---	20-35	---
black sagebrush	ARARN	---	---	---	---	---	---	35-45
bud sagebrush	ARSP5	---	5-15	---	---	2-8	---	---
fourwing saltbush	ATCA2	---	---	---	---	2-5	---	---
rabbitbrush	CHRS9	2-5	---	2-5	---	---	---	---
shadscale	ATCO	---	---	---	---	---	2-5	2-5
spiny hopsage	GRSP	---	---	---	---	---	5-20	---
winterfat	EULA5	---	20-30	---	---	40-50	---	---
Range site number		028BY010NV	028BY084NV	028BY010NV	028BY056NV	028BY013NV	028BY052NV	028BY016NV
Potential production (lb/acre):								
Favorable years		800	900	800	450	700	800	350
Normal years		600	700	600	325	500	600	225
Unfavorable years		400	400	400	150	350	450	100

1412--THREESEE-IDWAY ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		THREESEE	IDWAY	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	2-10	15-25	2-5	5-10
Sandberg bluegrass	POSE	2-5	---	---	---	---
basin wildrye	ELCI2	---	10-20	---	---	2-5
bottlebrush squirreltail	SIHY	2-8	---	2-5	2-5	---
needleandthread	STCO4	10-20	---	5-10	---	---
thickspike wheatgrass	AGDA	---	---	---	---	2-5
scarlet globemallow	SPCO	---	---	2-5	---	---
Wyoming big sagebrush	ARTRW	25-35	---	20-35	---	---
big sagebrush	ARTR2	---	20-30	---	---	---
black greasewood	SAVE4	---	30-40	---	20-30	40-60
bud sagebrush	ARSP5	---	---	---	2-10	---
fourwing saltbush	ATCA2	---	---	---	---	5-10
rabbitbrush	CHRY9	2-5	---	---	---	---
rubber rabbitbrush	CHNA2	---	2-5	---	---	---
shadscale	ATCO	---	---	2-5	20-50	5-10
spiny hopsage	GRSP	---	---	5-20	---	---
Range site number		028BY010NV	028BY028NV	028BY052NV	028BY074NV	028BY021NV
Potential production (lb/acre):						
Favorable years		800	800	800	600	400
Normal years		600	600	600	400	300
Unfavorable years		400	400	450	200	200

1413--IDWAY-ZORRAVISTA-KUNZLER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		IDWAY	ZORRAVISTA	KUNZLER	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	2-10	10-25	2-10	2-5	2-10
basin wildrye	ELCI2	10-20	---	10-20	---	10-20
bottlebrush squirreltail	SIHY	---	---	---	2-5	---
needleandthread	STCO4	---	2-5	---	---	---
other perennial grasses	PPGG	---	2-8	---	---	---
thickspike wheatgrass	AGDA	---	5-15	---	---	---
big sagebrush	ARTR2	20-30	30-40	20-30	---	20-30
black greasewood	SAVE4	30-40	---	30-40	20-30	30-40
bud sagebrush	ARSP5	---	---	---	2-10	---
fourwing saltbush	ATCA2	---	5-15	---	---	---
rubber rabbitbrush	CHNA2	2-5	2-5	2-5	---	2-5
shadscale	ATCO	---	---	---	20-50	---
spiny hopsage	GRSP	---	5-10	---	---	---
Range site number		028BY028NV	028BY068NV	028BY028NV	028BY074NV	028BY028NV
Potential production (lb/acre):						
Favorable years		800	800	800	600	800
Normal years		600	500	600	400	600
Unfavorable years		400	300	400	200	400

1414--THREESEE-SHANTOWN-KUNZLER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		THREESEE	SHANTOWN	KUNZLER	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	20-30	20-30	2-10	2-10	---	---
Sandberg bluegrass	POSE	2-5	2-5	---	---	---	---
alkali sacaton	SPAI	---	---	---	---	15-40	5-15
basin wildrye	ELCI2	---	---	10-20	10-20	40-60	2-8
bluegrass	POA++	---	---	---	---	---	25-50
bottlebrush squirreltail	SIBY	2-8	2-8	---	---	---	---
inland saltgrass	DISPS2	---	---	---	---	2-5	---
mat muhly	MURI	---	---	---	---	---	30-40
needleandthread	STCO4	10-20	10-20	---	---	---	---
western wheatgrass	AGSM	---	---	---	---	2-5	2-8
Wyoming big sagebrush	ARTRW	25-35	25-35	---	---	---	---
big sagebrush	ARTR2	---	---	20-30	20-30	---	---
black greasewood	SAVE4	---	---	30-40	30-40	5-15	---
rabbitbrush	CHRY89	2-5	2-5	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	2-5	2-5	2-5	---
Range site number		028BY010NV	028BY010NV	028BY028NV	028BY028NV	028BY004NV	028BY100NV
Potential production (lb/acre):							
Favorable years		800	800	800	800	2200	1500
Normal years		600	600	600	600	1500	1100
Unfavorable years		400	400	400	400	800	700

1430--POOKALOO-TECOMar-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		POOKALOO	TECOMar	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	X	10-20	---	---	---	15-30	---
Thurber needlegrass	STTH2	X	---	---	---	---	---	30-40
basin wildrye	ELCI2	X	---	---	---	---	---	---
muttongrass	POFE	---	---	---	---	5-10	---	---
Scribner needlegrass	STSC2	---	---	---	2-10	---	---	---
bluebunch wheatgrass	AGSP	X	20-40	---	---	30-45	30-40	15-30
bluegrass	POA++	X	2-5	---	---	---	5-10	---
bottlebrush squirreltail	SIHY	X	---	---	---	---	---	---
needleandthread	STCO4	---	2-5	---	---	---	---	2-8
arrowleaf balsamroot	BASA3	X	---	---	---	---	---	2-5
goldenweed	HAPLO2	---	2-5	---	2-5	---	---	---
tapertip hawksbeard	CRAC2	X	2-5	---	---	---	---	2-5
Stansbury cliffrose	COMES	X	---	---	---	---	---	---
antelope bitterbrush	PUTR2	X	---	---	---	---	2-5	2-10
black sagebrush	ARARN	X	25-35	---	2-8	35-45	---	---
littleleaf mountainmahogany	CEIN7	---	---	---	60-70	---	---	---
desert snowberry	SYLO	---	---	---	2-8	---	---	---
Douglas rabbitbrush	CHVI8	---	---	---	---	2-5	---	---
mountain big sagebrush	ARVA2	---	---	---	---	---	15-25	---
big sagebrush	ARTR2	---	---	---	---	---	---	15-25
curlleaf mountainmahogany	CELE3	X	---	---	---	---	---	---
serviceberry	AMELA	X	---	---	---	---	---	---
shadscale	ATCO	---	2-5	---	---	---	---	---
winterfat	EULA5	---	2-5	---	---	---	---	---
Utah juniper	JUOS	X	---	---	---	---	---	---
singleleaf pinyon	PIMO	X	---	---	---	---	---	---

Range site number	028BY060NV	028BY008NV	None	028BY066NV	028BY048NV	028BY079NV	028BY007NV
Potential production (lb/acre):							
Favorable years	500	600		1300	350	700	1000
Normal years	300	400		1000	200	500	800
Unfavorable years	250	200		800	100	300	600

1440--BOOFUSS-EQUIS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		BOOFUSS	BOOFUSS	EQUIS	Inclusion 1	Inclusion 2
Baltic rush	JUBA	---	---	2-8	---	---
Indian ricegrass	ORHY	---	---	---	2-5	---
alkali cordgrass	SPGR	---	---	10-15	---	---
alkali sacaton	SPAI	---	5-10	40-50	---	15-40
alkaligrass	FUCCI	---	---	2-5	---	---
basin wildrye	ELCI2	10-20	2-5	---	---	40-60
bluegrass	POA++	---	---	2-8	---	---
bottlebrush squirreltail	SIHY	2-5	---	---	2-5	---
inland saltgrass	DISPS2	2-10	2-8	2-5	---	2-5
sedge	CAREX	---	---	5-10	---	---
western wheatgrass	AGSM	---	---	---	---	2-5
black greasewood	SAVE4	50-60	60-75	---	20-30	5-15
bud sagebrush	ARSP5	---	---	---	2-10	---
rubber rabbitbrush	CHNA2	---	2-5	---	---	2-5
shadscale	ATCO	---	2-5	---	20-50	---
Range site number		028BY069NV	028BY020NV	028BY002NV	028BY074NV	028BY004NV
Potential production (lb/acre):						
Favorable years		800	500	1500	600	2200
Normal years		600	300	1000	400	1500
Unfavorable years		400	150	700	200	800

1441--BOOFUSS-WENDANE-UMBERLAND ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		BOOFUSS	WENDANE	UMBERLAND	Inclusion 1	Inclusion 2	Inclusion 3
Baltic rush	JUBA	2-8	---	---	---	---	---
alkali cordgrass	SPGR	10-15	---	---	---	---	---
alkali sacaton	SPAI	40-50	15-40	5-10	---	5-10	---
alkaligrass	PUCCI	2-5	---	---	---	---	---
basin wildrye	ELCI2	---	40-60	2-5	---	2-5	---
bluegrass	POA++	2-8	---	---	---	---	---
inland saltgrass	DISPS2	2-5	2-5	2-8	---	2-8	20-30
sedge	CAREX	5-10	---	---	---	---	---
western wheatgrass	AGSM	---	2-5	---	---	---	---
black greasewood	SAVE4	---	5-15	60-75	---	60-75	---
iodinebush	ALOC2	---	---	---	---	---	50-60
rubber rabbitbrush	CHNA2	---	2-5	2-5	---	2-5	---
shadscale	ATCO	---	---	2-5	---	2-5	---
Range site number		028BY002NV	028BY004NV	028BY020NV	None	028BY020NV	028AY009NV
Potential production (lb/acre):							
Favorable years		1500	2200	500		500	150
Normal years		1000	1500	300		300	100
Unfavorable years		700	800	150		150	75

1450--PILTDOWN-KAWICH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		PILTDOWN	KAWICH	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	50-70	5-10	---	20-35	2-10	---
Sandberg bluegrass	POSE	---	---	5-10	2-8	---	---
basin wildrye	ELCI2	---	2-5	---	---	10-20	---
bottlebrush squirreltail	SIHY	---	---	5-15	2-5	---	---
galleta	HIJA	2-5	---	---	---	---	---
needleandthread	STCO4	2-5	---	---	5-15	---	---
sand dropseed	SPCR	5-15	---	---	---	---	---
thickspike wheatgrass	AGDA	---	2-5	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	60-70	---	---	---
big sagebrush	ARTR2	---	---	---	---	20-30	---
black greasewood	SAVE4	---	40-60	---	---	30-40	---
black sagebrush	ARARN	---	---	---	25-35	---	---
downy rabbitbrush	CHVIP4	---	---	---	2-5	---	---
fourwing saltbush	ATCA2	15-25	5-10	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	2-5	---
shadscale	ATCO	---	5-10	---	2-5	---	---
winterfat	EULA5	2-8	---	---	---	---	---
Range site number		029XY012NV	028BY021NV	028BY056NV	028BY011NV	028BY028NV	None
Potential production (lb/acre):							
Favorable years		700	400	450	600	800	
Normal years		500	300	325	450	600	
Unfavorable years		300	200	150	250	400	

1460--TOSSER-THREESEE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		TOSSER	THREESEE	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	10-20	20-30	1-5	---	20-30
Sandberg bluegrass	POSE	2-5	2-5	---	5-10	2-5
bottlebrush squirreltail	SIHY	2-5	2-8	5-10	5-15	2-8
needleandthread	STCO4	10-20	10-20	---	---	10-20
Wyoming big sagebrush	ARTRW	---	25-35	---	60-70	25-35
black sagebrush	ARARN	35-45	---	---	---	---
rabbitbrush	CHRY89	---	2-5	---	---	2-5
shadscale	ATCO	2-5	---	85-90	---	---
Range site number		028BY016NV	028BY010NV	028BY073NV	028BY056NV	028BY010NV
Potential production (lb/acre):						
Favorable years		350	800	400	450	800
Normal years		225	600	300	325	600
Unfavorable years		100	400	200	150	400

1471--TIMPIE-KUNZLER-THREESEE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		TIMPIE	KUNZLER	THREESEE	Inclusion 1	Inclusion 2
Indian ricegrass	ORHY	40-50	---	20-30	40-50	15-25
Sandberg bluegrass	POSE	---	5-10	2-5	---	---
basin wildrye	ELCI2	---	---	---	---	5-10
bottlebrush squirreltail	SIHY	2-5	5-15	2-8	2-5	2-8
needleandthread	STCO4	---	---	10-20	---	---
wheatgrass	AGROP2	---	---	---	---	5-15
Wyoming big sagebrush	ARTRW	---	60-70	25-35	---	30-45
bud sagebrush	ARSP5	5-15	---	---	5-15	---
rabbitbrush	CHRS9	---	---	2-5	---	---
winterfat	EULA5	20-30	---	---	20-30	2-8
Range site number		028BY084NV	028BY056NV	028BY010NV	028BY084NV	028BY014NV
Potential production (lb/acre):						
Favorable years		900	450	800	900	600
Normal years		700	325	600	700	450
Unfavorable years		400	150	400	400	200

1480--TULASE-LINOYER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		TULASE	LINOYER	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	5-10	15-25	20-30	10-20	20-35	15-25
Sandberg bluegrass	POSE	---	---	2-5	---	2-8	---
basin wildrye	ELCI2	10-20	---	---	---	---	---
bottlebrush squirreltail	SIRY	---	5-10	2-5	2-5	2-5	2-5
needleandthread	STCO4	---	---	10-20	---	5-15	5-10
other perennial grasses	PFGG	---	2-5	---	---	---	---
thickspike wheatgrass	AGDA	5-10	---	---	---	---	---
western wheatgrass	AGSM	---	---	---	5-15	---	---
globemallow	SPHAE	---	2-5	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	25-35	---	25-35	---	---	20-35
black sagebrush	ARARN	---	---	---	---	25-35	---
bud sagebrush	ARSP5	---	2-8	---	---	---	---
downy rabbitbrush	CHVIP4	---	---	---	---	2-5	---
fourwing saltbush	ATCA2	---	2-5	---	---	---	---
shadscale	ATCO	---	---	---	---	2-5	2-5
sickle saltbush	ATPA	---	---	---	45-55	---	---
spiny hopsage	GRSP	---	---	---	---	---	5-20
winterfat	EULA5	---	40-50	---	2-5	---	---
Range site number		028BY045NV	028BY013NV	028BY080NV	028BY065NV	028BY011NV	028BY052NV
Potential production (lb/acre):							
Favorable years		1000	700	600	700	600	800
Normal years		800	500	400	500	450	600
Unfavorable years		600	350	200	350	250	450

1500--TOOELE-LORAY ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		TOOELE	LORAY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-5	15-25	2-5	5-10	---	5-10
King desertgrass	BLKI	---	2-5	---	---	---	---
basin wildrye	ELCI2	---	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	2-5	---	2-5	---	---	2-5
galleta	HIJA	---	2-8	---	---	---	1-4
inland saltgrass	DISP2	---	---	---	---	20-30	---
thickspike wheatgrass	AGDA	---	---	---	2-5	---	---
globemallow	SPHA	---	2-5	---	---	---	2-5
Nevada ephedra	EPNE	---	---	---	---	---	2-15
black greasewood	SAVE4	20-30	---	20-30	40-60	---	---
bud sagebrush	ARSP5	2-10	---	2-10	---	---	---
fourwing saltbush	ATCA2	---	5-10	---	5-10	---	5-30
gray molly kochia	KOAMV	---	2-5	---	---	---	---
iodinebush	ALOC2	---	---	---	---	50-60	---
rabbitbrush	CHRY9	---	---	---	---	---	5-20
shadscale	ATCO	20-50	40-50	20-50	5-10	---	2-5
spiny hopsage	GRSP	---	---	---	---	---	5-20
winterfat	EULA5	---	2-8	---	---	---	---

Range site number	028BY074NV	028AY012NV	028BY074NV	028BY021NV	028AY009NV	028AY037NV
Potential production (lb/acre):						
Favorable years	600	500	600	400	150	600
Normal years	400	300	400	300	100	500
Unfavorable years	200	200	200	200	75	400

1510--IZAMATCH-CLIFFDOWN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		IZAMATCH	CLIFFDOWN	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	35-45	15-25	25-35	2-5	5-10
King desertgrass	BLKI	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	---	---	2-5	2-5	2-5
galleta	HIJA	2-8	2-8	2-5	---	1-4
needleandthread	STCO4	2-8	---	---	---	---
sand dropseed	SPCR	2-5	---	2-5	---	---
globemallow	SPHA2	2-5	2-5	2-5	---	2-5
princesplume	STANL	---	---	2-5	---	---
Nevada ephedra	EPNE	---	---	2-5	---	2-15
black greasewood	SAVE4	---	---	---	20-30	---
bud sagebrush	ARSP5	2-10	5-10	2-5	2-10	---
fourwing saltbush	ATCA2	---	---	---	---	5-30
gray molly kochia	KOAMV	---	2-5	---	---	---
horsebrush	TETRA3	---	---	5-10	---	---
rabbitbrush	CHRY9	---	---	---	---	5-20
shadscale	ATCO	20-30	40-50	15-25	20-50	2-5
spiny hopsage	GRSP	---	---	---	---	5-20
winterfat	EULA5	5-15	2-8	5-10	---	---
Range site number		028AY018NV	028AY012NV	028AY014NV	028BY074NV	028AY037NV
Potential production (lb/acre):						
Favorable years		700	500	600	600	600
Normal years		500	300	400	400	500
Unfavorable years		300	200	200	200	400

1520--IZAMATCH-LUNING ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		IZAMATCH	IZAMATCH	LUNING	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	35-45	25-35	25-35	10-25	5-10	10-20	10-25
Sandberg bluegrass	POSE	---	---	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	---	2-5	2-5	---	2-5	2-5	2-5
galleta	HIJA	2-8	2-5	2-5	2-8	1-4	1-5	2-8
needleandthread	STCO4	2-8	---	---	2-10	---	---	2-10
sand dropseed	SPCR	2-5	2-5	2-5	---	---	---	---
globemallow	SPHA	2-5	2-5	2-5	---	2-5	2-5	---
princesplume	STANL	---	2-5	2-5	---	---	---	---
Nevada ephedra	EPNE	---	2-5	2-5	---	2-15	---	---
black sagebrush	ARARN	---	---	---	15-30	---	---	---
bud sagebrush	ARSP5	2-10	2-5	2-5	---	---	---	2-10
fourwing saltbush	ATCA2	---	---	---	---	5-30	10-20	---
horsebrush	TETRA3	---	5-10	5-10	---	---	---	---
rabbitbrush	CHRY99	---	---	---	---	5-20	---	---
shadscale	ATCO	20-30	15-25	15-25	2-5	2-5	2-5	15-25
spiny hopsage	GRSP	---	---	---	---	5-20	30-40	---
winterfat	EULAS	5-15	5-10	5-10	5-10	---	2-5	2-5

Range site number	028AY018NV	028AY014NV	028AY014NV	028AY004NV	028AY037NV	028AY006NV	028AY003NV
Potential production (lb/acre):							
Favorable years	700	600	600	500	600	600	250
Normal years	500	400	400	325	500	400	150
Unfavorable years	300	200	200	100	400	250	75

1521--IZAMATCH-THERIOT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		IZAMATCH	IZAMATCH	THERIOT	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORRY	35-45	25-35	15-25	10-25	5-10	40-50	10-25
Sandberg bluegrass	POSE	---	---	---	2-5	---	---	2-5
bottlebrush squirreltail	SIHY	---	2-5	---	---	2-5	---	---
galleta	HIJA	2-8	2-5	2-8	2-8	1-4	2-8	2-8
needleandthread	STCO4	2-8	---	5-15	2-10	---	---	2-10
sand dropseed	SPCR	2-5	2-5	---	---	---	---	---
globemallow	SPHAE	2-5	2-5	---	---	2-5	2-5	---
princesplume	STANL	---	2-5	---	---	---	---	---
Nevada ephedra	EPNE	---	---	5-15	---	2-15	---	---
black sagebrush	ARARN	---	---	15-35	15-30	---	---	15-30
bud sagebrush	ARSP5	2-10	2-5	---	---	---	2-8	---
fourwing saltbush	ATCA2	---	---	---	---	5-30	---	---
horsebrush	TETRA3	---	5-10	5-15	---	---	---	---
rabbitbrush	CHRY9	---	---	---	---	5-20	---	---
shadscale	ATCO	20-30	15-25	2-8	2-5	2-5	1-5	2-5
spiny hopsage	GRSP	---	---	---	---	5-20	---	---
winterfat	EULA5	5-15	5-10	2-8	5-10	---	25-30	5-10
Range site number		028AY018NV	028AY014NV	028AY044NV	028AY004NV	028AY037NV	028AY002NV	028AY004NV
Potential production (lb/acre):								
Favorable years		700	600	600	500	600	800	500
Normal years		500	400	400	325	500	600	325
Unfavorable years		300	200	200	100	400	400	100

1522--IZAMATCH-SMAUG-BADLAND ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		IZAMATCH	SMAUG	BADLAND	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	35-45	40-50	---	5-10	40-50	25-35
bottlebrush squirreltail	SIHY	---	---	---	2-5	---	2-5
galleta	HIJA	2-8	2-8	---	1-4	2-8	2-5
needleandthread	STCO4	2-8	---	---	---	---	---
sand dropseed	SPCR	2-5	---	---	---	---	2-5
globemallow	SPHAE	2-5	2-5	---	2-5	2-5	2-5
princeaplume	STANL	---	---	---	---	---	2-5
Nevada ephedra	EPNE	---	---	---	2-15	---	2-5
bud sagebrush	ARSP5	2-10	2-8	---	---	2-8	2-5
fourwing saltbush	ATCA2	---	---	---	5-30	---	---
horsebrush	TETRA3	---	---	---	---	---	5-10
rabbitbrush	CHRY89	---	---	---	5-20	---	---
shadscale	ATCO	20-30	1-5	---	2-5	1-5	15-25
spiny hopsage	GRSP	---	---	---	5-20	---	---
winterfat	EULA5	5-15	25-30	---	---	25-30	5-10
Range site number		028AY018NV	028AY002NV	None	028AY037NV	028AY002NV	028AY014NV
Potential production (lb/acre):							
Favorable years		700	800		600	800	600
Normal years		500	600		500	600	400
Unfavorable years		300	400		400	400	200

1530--THERIOT-IZAMATCH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		THERIOT	THERIOT	IZAMATCH	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	15-25	10-25	35-45	---	10-25	40-50	5-10
Sandberg bluegrass	POSE	---	---	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	---	2-5	---	---	---	---	2-5
galleta	HIJA	2-8	2-8	2-8	---	2-8	2-8	1-4
needleandthread	STCO4	5-15	2-10	2-8	---	2-10	---	---
sand dropseed	SPCR	---	---	2-5	---	---	---	---
globemallow	SPHAE	---	---	2-5	---	---	2-5	2-5
Nevada ephedra	EPNE	5-15	---	---	---	---	---	2-15
black sagebrush	ARARN	15-35	---	---	---	15-30	---	---
bud sagebrush	ARSP5	---	2-10	2-10	---	---	2-8	---
fourwing saltbush	ATCA2	---	---	---	---	---	---	5-30
horsebrush	TETRA3	5-15	---	---	---	---	---	---
rabbitbrush	CHRY89	---	---	---	---	---	---	5-20
shadscale	ATCO	2-8	15-25	20-30	---	2-5	1-5	2-5
spiny hopsage	GRSP	---	---	---	---	---	---	5-20
winterfat	EULA5	2-8	2-5	5-15	---	5-10	25-30	---
Range site number		028AY044NV	028AY003NV	028AY018NV	None	028AY004NV	028AY002NV	028AY037NV
Potential production (lb/acre):								
Favorable years		600	250	700		500	800	600
Normal years		400	150	500		325	600	500
Unfavorable years		200	75	300		100	400	400

1531--THERIOT-IZAMATCH-ROCK OUTCROP ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		THERIOT	IZAMATCH	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	OREY	15-25	10-25	---	15-25	10-25	5-10	---
bottlebrush squirreltail	SIHY	---	2-5	---	---	2-5	2-8	---
galleta	HIJA	2-8	2-8	---	2-8	2-8	---	---
needleandthread	STCO4	5-15	2-10	---	5-15	2-10	---	---
Nevada ephedra	EPNE	5-15	---	---	5-15	---	---	---
black sagebrush	ARARN	15-35	---	---	15-35	---	---	---
bud sagebrush	ARSP5	---	2-10	---	---	2-10	---	---
horsebrush	TETRA3	5-15	---	---	5-15	---	---	---
shadscale	ATCO	2-8	15-25	---	2-8	15-25	---	---
winterfat	EULA5	2-8	2-5	---	2-8	2-5	60-70	---
Range site number		028AY044NV	028AY003NV	None	028AY044NV	028AY003NV	028BY018NV	None
Potential production (lb/acre):								
Favorable years		600	250		600	250	500	
Normal years		400	150		400	150	350	
Unfavorable years		200	75		200	75	200	

1532--THERIOT-ROCK OUTCROP ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		THERIOT	THERIOT	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	15-25	15-25	---	10-25	35-45	5-10
Sandberg bluegrass	POSE	---	---	---	2-5	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	---	2-5
galleta	HIJA	2-8	2-8	---	2-8	2-8	1-4
needleandthread	STCO4	5-15	5-15	---	2-10	2-8	---
sand dropseed	SPCR	---	---	---	---	2-5	---
globemallow	SPHAE	---	---	---	---	2-5	2-5
Nevada ephedra	EPNE	5-15	5-15	---	---	---	2-15
black sagebrush	ARARN	15-35	15-35	---	15-30	---	---
bud sagebrush	ARSP5	---	---	---	---	2-10	---
fourwing saltbush	ATCA2	---	---	---	---	---	5-30
horsebrush	TETRA3	5-15	5-15	---	---	---	---
rabbitbrush	CHRS9	---	---	---	---	---	5-20
shadscale	ATCO	2-8	2-8	---	2-5	20-30	2-5
spiny hopsage	GRSP	---	---	---	---	---	5-20
winterfat	EULA5	2-8	2-8	---	5-10	5-15	---
Range site number		028AY044NV	028AY044NV	None	028AY004NV	028AY018NV	028AY037NV
Potential production (lb/acre):							
Favorable years		600	600		500	700	600
Normal years		400	400		325	500	500
Unfavorable years		200	200		100	300	400

1540--AMTOFT-KYLER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		KYLER	AMTOFT	AMTOFT	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	15-25	5-15	---	---	15-25	2-10
Sandberg bluegrass	POSE	2-5	2-5	---	---	---	---	2-8
Scribner needlegrass	STSC2	---	---	---	5-10	---	---	---
blue grama	BOGR2	---	---	1-5	---	---	---	---
bluebunch wheatgrass	AGSP	---	2-8	30-40	---	---	---	---
bluegrass	POA++	---	---	2-5	---	---	---	---
bottlebrush squirreltail	SIHY	---	2-5	---	---	---	2-5	---
galleta	HIJA	2-8	2-8	---	2-4	---	2-5	1-5
needleandthread	STCO4	2-10	---	2-5	---	---	5-10	1-5
scarlet globemallow	SPCO	---	---	---	---	---	2-5	---
Nevada ephedra	EPNE	---	---	---	2-5	---	---	5-10
Nevada greasbrush	FONE2	---	---	---	2-5	---	---	---
Stansbury cliffrose	COMES	---	---	2-8	2-5	---	---	---
Utah juniper	JUOS	---	5-15	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	25-35	---
big sagebrush	ARTR2	---	---	---	---	---	---	30-45
black sagebrush	ARARN	15-30	40-50	25-35	2-8	---	---	---
bud sagebrush	ARSP5	---	---	---	---	---	2-5	---
horsebrush	TETRA3	---	---	---	---	---	---	2-8
littleleaf mountainmahogany	CEIN7	---	---	---	60-70	---	---	---
other shrubs	SSSS	---	---	---	---	---	---	5-25
rubber rabbitbrush	CHNA2	---	---	---	---	---	---	5-20
shadscale	ATCO	2-5	---	---	---	---	2-5	---
spiny hopsage	GRSP	---	---	---	---	---	5-15	2-8
winterfat	EULA5	5-10	---	---	---	---	---	---
Range site number		028AY004NV	028AY027NV	028AY034NV	028AY029NV	None	028AY028NV	028AY038NV
Potential production (lb/acre):								
Favorable years		500	400	600	900		900	1000
Normal years		325	350	400	700		700	700
Unfavorable years		100	125	200	500		400	500

1541--KYLER-ROCK OUTCROP ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		KYLER	KYLER	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	10-25	---	10-25	15-25	15-25	5-10
Sandberg bluegrass	POSE	2-5	2-5	---	2-5	---	2-5	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5	---	2-5
galleta	HIJA	2-8	2-8	---	2-8	2-5	1-5	1-4
needleandthread	STCO4	2-10	2-10	---	2-10	5-10	5-10	---
globemallow	SPHAE	---	---	---	---	---	2-5	2-5
scarlet globemallow	SPCO	---	---	---	---	2-5	---	---
Nevada ephedra	EPNE	---	---	---	---	---	---	2-15
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---	---
black sagebrush	ARARN	15-30	15-30	---	15-30	---	15-25	---
bud sagebrush	ARSP5	---	---	---	---	2-5	---	---
fourwing saltbush	ATCA2	---	---	---	---	---	---	5-30
rabbitbrush	CHRY99	---	---	---	---	---	---	5-20
shadscale	ATCO	2-5	2-5	---	2-5	2-5	---	2-5
spiny hopsage	GRSP	---	---	---	---	5-15	20-30	5-20
winterfat	EULA5	5-10	5-10	---	5-10	---	---	---
Range site number		028AY004NV	028AY004NV	None	028AY004NV	028AY028NV	028AY047NV	028AY037NV
Potential production (lb/acre):								
Favorable years		500	500		500	900	600	600
Normal years		325	325		325	700	400	500
Unfavorable years		100	100		100	400	200	400

1542--KYLER-AMTOFT-JERICHO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		KYLER	AMTOFT	JERICHO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	15-25	20-30	10-25	---	15-25	5-15
Sandberg bluegrass	POSE	2-5	2-5	---	2-5	---	---	---
blue grama	BOGR2	---	---	---	---	---	---	1-5
bluebunch wheatgrass	AGSP	---	2-8	---	---	---	---	30-40
bottlebrush squirreltail	SIHY	---	2-5	---	---	---	2-5	---
galleta	HIJA	2-8	2-8	2-5	2-8	---	2-5	---
muttongrass	POPE	---	---	---	---	---	---	2-8
needleandthread	STCO4	2-10	---	15-25	2-10	---	5-10	2-5
sand dropseed	SPCR	---	---	2-5	---	---	---	---
globemallow	SPHAE	---	---	2-5	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	---	2-5	---
Stansbury cliffrose	COMES	---	---	---	---	---	---	2-8
Utah juniper	JUOS	---	5-15	---	---	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	25-35	---
black sagebrush	ARARN	15-30	40-50	15-30	15-30	---	---	25-35
bud sagebrush	ARSP5	---	---	---	---	---	2-5	---
fourwing saltbush	ATCA2	---	---	2-8	---	---	---	---
shadscale	ATCO	2-5	---	---	2-5	---	2-5	---
spiny hopsage	GRSP	---	---	---	---	---	5-15	---
winterfat	EULAS	5-10	---	2-5	5-10	---	---	---
Range site number		028AY004NV	028AY027NV	028AY013NV	028AY004NV	None	028AY028NV	028AY043NV
Potential production (lb/acre):								
Favorable years		500	400	700	500		900	800
Normal years		325	350	500	325		700	600
Unfavorable years		100	125	300	100		400	400

1550--JERICHO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		JERICHO	JERICHO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	10-25	5-15	20-30	15-25	15-25
Sandberg bluegrass	POSE	---	2-5	---	2-5	2-5	---
blue grama	BOGR2	---	---	1-5	---	---	---
bluebunch wheatgrass	AGSP	---	---	30-40	---	2-8	---
bluegrass	POA++	---	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	2-5	2-5	2-5
galleta	HIJA	2-5	2-8	---	2-8	2-8	2-5
needleandthread	STCO4	15-25	2-10	2-5	15-25	---	5-10
sand dropseed	SPCR	2-5	---	---	---	---	---
globemallow	SPHAE	2-5	---	---	2-5	---	---
scarlet globemallow	SFPCO	---	---	---	---	---	2-5
Stansbury cliffrose	COMES	---	---	2-8	---	---	---
Utah juniper	JUOS	---	---	---	---	5-15	---
Wyoming big sagebrush	ARTRW	---	---	---	15-25	---	25-35
black sagebrush	ARARN	15-30	15-30	25-35	---	40-50	---
bud sagebrush	ARSP5	---	---	---	---	---	2-5
fourwing saltbush	ATCA2	2-8	---	---	---	---	---
shadscale	ATCO	---	2-5	---	---	---	2-5
spiny hopsage	GRSP	---	---	---	2-5	---	5-15
winterfat	EULAS	2-5	5-10	---	2-5	---	---
Range site number		028AY013NV	028AY004NV	028AY034NV	028AY015NV	028AY027NV	028AY028NV
Potential production (lb/acre):							
Favorable years		700	500	600	800	400	900
Normal years		500	325	400	600	350	700
Unfavorable years		300	100	200	400	125	400

1560--TOANO-TIMPIE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		TOANO	TIMPIE	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	15-25	10-20	20-30	35-45	10-15
bottlebrush squirreltail	SIRY	5-10	2-5	---	---	2-5
galleta	HIJA	---	---	2-8	2-8	---
needleandthread	STCO4	---	---	5-15	2-8	---
sand dropseed	SPCR	---	---	2-5	2-5	---
western wheatgrass	AGSM	---	5-15	---	---	---
globemallow	SPHAE	2-5	---	---	2-5	---
Nevada ephedra	EPNE	---	---	1-5	---	---
black greasewood	SAVE4	---	---	---	---	15-25
bud sagebrush	ARSP5	---	---	---	2-10	---
fourwing saltbush	ATCA2	2-5	---	15-25	---	---
gray molly kochia	KOAMV	---	2-5	---	---	---
other shrubs	SSSS	5-15	---	---	---	---
shadscale	ATCO	---	---	---	20-30	---
sickle saltbush	ATFA	---	45-55	---	---	---
spiny hopsage	GRSP	---	---	2-8	---	40-60
winterfat	EULA5	50-60	2-8	10-20	5-15	---
Range site number		028AY030NV	028AY033NV	028AY019NV	028AY018NV	028AY032NV
Potential production (lb/acre):						
Favorable years		700	700	600	700	1000
Normal years		500	500	400	500	800
Unfavorable years		350	350	250	300	600

1570--JERICHO-XERIC TORRIORTHENTS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		JERICHO	XERIC TORRIO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	---	10-25	10-25	15-25	2-10
Sandberg bluegrass	POSE	2-5	---	2-5	2-5	---	2-5
alkali sacaton	SPAI	---	2-5	---	---	---	---
basin wildrye	ELCI2	---	40-60	---	---	---	---
bluegrass	POA++	---	2-5	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5	2-5
galleta	HIJA	2-8	---	2-8	2-8	2-5	2-5
needleandthread	STCO4	2-10	---	2-10	2-10	5-10	2-10
western wheatgrass	AGSM	---	5-10	---	---	---	---
scarlet globemallow	SPCO	---	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---
basin big sagebrush	ARTRT	---	5-15	---	---	---	---
black greasewood	SAVE4	---	2-5	---	---	---	---
black sagebrush	ARARN	15-30	---	15-30	15-30	---	---
bud sagebrush	ARSP5	---	---	---	---	2-5	---
pigmy sagebrush	ARPY2	---	---	---	---	---	50-70
rubber rabbitbrush	CHNA2	---	2-5	---	---	---	---
shadscale	ATCO	2-5	---	2-5	2-5	2-5	---
spiny hopsage	GRSP	---	---	---	---	5-15	---
winterfat	EULA5	5-10	---	5-10	5-10	---	---
Range site number		028AY004NV	028BY041NV	028AY004NV	028AY004NV	028AY028NV	028AY007NV
Potential production (lb/acre):							
Favorable years		500	1800	500	500	900	250
Normal years		325	1500	325	325	700	175
Unfavorable years		100	1100	100	100	400	100

1580--ARMESPAN-JERICHO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		ARMESPAN	JERICHO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	10-25	35-45	15-25	2-10	20-30
Sandberg bluegrass	POSE	2-5	2-5	---	---	2-8	2-5
bottlebrush squirreltail	SIHY	---	---	---	2-5	---	2-5
galleta	HIJA	2-8	2-8	2-8	2-5	1-5	2-8
needleandthread	STCO4	2-10	2-10	2-8	5-10	1-5	15-25
sand dropseed	SPCR	---	---	2-5	---	---	---
globemallow	SPHAE	---	---	2-5	---	---	2-5
scarlet globemallow	SPCO	---	---	---	2-5	---	---
Nevada ephedra	EPNE	---	---	---	---	5-10	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	---	15-25
big sagebrush	ARTR2	---	---	---	---	30-45	---
black sagebrush	ARARN	15-30	15-30	---	---	---	---
bud sagebrush	ARSP5	---	---	2-10	2-5	---	---
horsebrush	TETRA3	---	---	---	---	2-8	---
other shrubs	SSSS	---	---	---	---	5-25	---
rubber rabbitbrush	CHNA2	---	---	---	---	5-20	---
shadscale	ATCO	2-5	2-5	20-30	2-5	---	---
spiny hopsage	GRSP	---	---	---	5-15	2-8	2-5
winterfat	EULA5	5-10	5-10	5-15	---	---	2-5
Range site number		028AY004NV	028AY004NV	028AY018NV	028AY028NV	028AY038NV	028AY015NV
Potential production (lb/acre):							
Favorable years		500	500	700	900	1000	800
Normal years		325	325	500	700	700	600
Unfavorable years		100	100	300	400	500	400

1581--ARMESPAN-KYLER-HEIST ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		ARMESPAN	KYLER	HEIST	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	10-25	40-50	15-25	15-25	2-10	15-25
Sandberg bluegrass	POSE	2-5	2-5	---	2-5	2-5	2-5	---
bluebunch wheatgrass	AGSP	---	---	---	2-8	---	---	---
bottlebrush squirreltail	SIHY	---	---	2-5	2-5	---	2-5	2-5
galleta	HIJA	2-8	2-8	---	2-8	1-5	2-5	2-5
needleandthread	STCO4	2-10	2-10	---	---	5-10	2-10	5-10
globemallow	SPHAE	---	---	---	---	2-5	---	---
scarlet globemallow	SFCO	---	---	---	---	---	---	2-5
Utah juniper	JUOS	---	---	---	5-15	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	---	---	25-35
black sagebrush	ARARN	15-30	15-30	---	40-50	15-25	---	---
bud sagebrush	ARSP5	---	---	5-15	---	---	---	2-5
pygmy sagebrush	ARPY2	---	---	---	---	---	50-70	---
shadscale	ATCO	2-5	2-5	---	---	---	---	2-5
spiny hopsage	GRSP	---	---	---	---	20-30	---	5-15
winterfat	EULA5	5-10	5-10	20-30	---	---	---	---
Range site number		028AY004NV	028AY004NV	028BY084NV	028AY027NV	028AY047NV	028AY007NV	028AY028NV
Potential production (lb/acre):								
Favorable years		500	500	900	400	600	250	900
Normal years		325	325	700	350	400	175	700
Unfavorable years		100	100	400	125	200	100	400

1582--ARMESPAN-XERIC TORRIORTHENTS ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		ARMESPAN	XERIC TORRIO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	---	10-25	10-25	15-25	X
Sandberg bluegrass	POSE	2-5	---	2-5	2-5	---	X
alkali sacaton	SPAI	---	2-5	---	---	---	---
basin wildrye	ELCI2	---	40-60	---	---	---	---
bluegrass	POA++	---	2-5	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5	X
galleta	HIJA	2-8	---	2-8	2-8	2-5	X
needleandthread	STCO4	2-10	---	2-10	2-10	5-10	X
western wheatgrass	AGSM	---	5-10	---	---	---	---
King birdbeak	COKI	---	---	---	---	---	X
erigonum	ERIOG	---	---	---	---	---	X
phlox	PHLOX	---	---	---	---	---	X
scarlet globemallow	SPCO	---	---	---	---	2-5	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	X
Utah juniper	JUOS	---	---	---	---	---	X
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35	---
basin big sagebrush	ARTRT	---	5-15	---	---	---	---
black greasewood	SAVE4	---	2-5	---	---	---	---
black sagebrush	ARARN	15-30	---	15-30	15-30	---	X
bud sagebrush	ARSP5	---	---	---	---	2-5	---
green ephedra	EPVI	---	---	---	---	---	X
pricklypear	OPUNT	---	---	---	---	---	X
rubber rabbitbrush	CHNA2	---	2-5	---	---	---	---
shadscale	ATCO	2-5	---	2-5	2-5	2-5	---
spiny hopsage	GRSP	---	---	---	---	5-15	---
winterfat	EULA5	5-10	---	5-10	5-10	---	---
Range site number		028AY004NV	028BY041NV	028AY004NV	028AY004NV	028AY028NV	028AY041NV
Potential production (lb/acre):							
Favorable years		500	1800	500	500	900	400
Normal years		325	1500	325	325	700	250
Unfavorable years		100	1100	100	100	400	150

1590--LUNING-LORAY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		LUNING	LUNING	LORAY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	35-45	25-35	15-25	X	35-45	5-10	15-25
King desertgrass	BLKI	---	---	2-5	---	---	---	---
Sandberg bluegrass	POSE	---	---	---	X	---	---	---
bottlebrush squirreltail	SIHY	---	2-5	---	X	---	2-5	5-10
galleta	HIJA	2-8	2-5	2-8	X	2-8	1-4	---
needleandthread	STCO4	2-8	---	---	X	2-8	---	---
sand dropseed	SPCR	2-5	2-5	---	---	2-5	---	---
King birdbeak	COKI	---	---	---	X	---	---	---
erigonum	ERIOG	---	---	---	X	---	---	---
globemallow	SPHAE	2-5	2-5	2-5	---	2-5	2-5	2-5
phlox	PHLOX	---	---	---	X	---	---	---
princesplume	STANL	---	2-5	---	---	---	---	---
Douglas rabbitbrush	CHVIS	---	---	---	X	---	---	---
Nevada ephedra	EPNE	---	2-5	---	---	---	2-15	---
Utah juniper	JUOS	---	---	---	X	---	---	---
black sagebrush	ARARN	---	---	---	X	---	---	---
bud sagebrush	ARSP5	2-10	2-5	5-10	---	2-10	---	---
fourwing saltbush	ATCA2	---	---	---	---	---	5-30	2-5
gray molly kochia	KOAMV	---	---	2-5	---	---	---	---
green ephedra	EPVI	---	---	---	X	---	---	---
horsebrush	TETRA3	---	5-10	---	---	---	---	---
other shrubs	SSSS	---	---	---	---	---	---	5-15
pricklypear	OPUNT	---	---	---	X	---	---	---
rabbitbrush	CHRY9	---	---	---	---	---	5-20	---
shadscale	ATCO	20-30	15-25	40-50	---	20-30	2-5	---
spiny hopsage	GRSP	---	---	---	---	---	5-20	---
winterfat	EULA5	5-15	5-10	2-8	---	5-15	---	50-60

Range site number	028AY018NV	028AY014NV	028AY012NV	028AY041NV	028AY018NV	028AY037NV	028AY030NV
Potential production (lb/acre):							
Favorable years	700	600	500	400	700	600	700
Normal years	500	400	300	250	500	500	500
Unfavorable years	300	200	200	150	300	400	350

1591--LUNING-IZAMATCH-BADLAND ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		LUNING	IZAMATCH	BADLAND	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	35-45	25-35	---	10-25	15-25	40-50	---
King desertgrass	BLKI	---	---	---	---	2-5	---	---
Sandberg bluegrass	POSE	---	---	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	---	2-5	---	---	---	---	---
galleta	HIJA	2-8	2-5	---	2-8	2-8	2-8	---
needleandthread	STCO4	2-8	---	---	2-10	---	---	---
sand dropseed	SPCR	2-5	2-5	---	---	---	---	---
globemallow	SPHA	2-5	2-5	---	---	2-5	2-5	---
princeplume	STANL	---	2-5	---	---	---	---	---
Nevada sphaedra	EPNE	---	2-5	---	---	---	---	---
black sagebrush	ARARN	---	---	---	15-30	---	---	---
bud sagebrush	ARSP5	2-10	2-5	---	---	5-10	2-8	---
gray molly kochia	KOAMV	---	---	---	---	2-5	---	---
horsetail	TETRA3	---	5-10	---	---	---	---	---
shadscale	ATCO	20-30	15-25	---	2-5	40-50	1-5	---
winterfat	EULAS	5-15	5-10	---	5-10	2-8	25-30	---
Range site number		028AY018NV	028AY014NV	None	028AY004NV	028AY012NV	028AY002NV	None
Potential production (lb/acre):								
Favorable years		700	600		500	500	800	
Normal years		500	400		325	300	600	
Unfavorable years		300	200		100	200	400	

1600--EAGLEPASS-AMTOFT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		EAGLEPASS	AMTOFT	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	5-15	10-25	---	15-25
Sandberg bluegrass	POSE	---	---	2-5	---	---
Scribner needlegrass	STSC2	5-10	---	---	---	---
blue grama	BOGR2	---	1-5	---	---	---
bluebunch wheatgrass	AGSP	---	30-40	---	---	---
bluegrass	POA++	---	2-5	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5
galleta	HIJA	2-4	---	2-8	---	2-5
needleandthread	STCO4	---	2-5	2-10	---	5-10
scarlet globemallow	SPCO	---	---	---	---	2-5
Nevada greasabush	FONE2	2-5	---	---	---	---
Stansbury cliffrose	COMES	2-5	2-8	---	---	---
Wyoming big sagebrush	ARTRW	---	---	---	---	25-35
black sagebrush	ARARN	2-8	25-35	15-30	---	---
bud sagebrush	ARSP5	---	---	---	---	2-5
littleleaf mountainmahogany	CEIN7	60-70	---	---	---	---
shadscale	ATCO	---	---	2-5	---	2-5
spiny hopsage	GRSP	---	---	---	---	5-15
winterfat	EULA5	---	---	5-10	---	---
Range site number		028AY029NV	028AY034NV	028AY004NV	None	028AY028NV
Potential production (lb/acre):						
Favorable years		900	600	500		900
Normal years		700	400	325		700
Unfavorable years		500	200	100		400

1610--XERIC TORRIORTHENTS-ARMESPAN-BADLANDS ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		XERIC TORRIO	ARMESPAN	BADLAND	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	---	10-25	---	15-25	20-30	25-35	10-15
Sandberg bluegrass	POSE	---	2-5	---	---	---	---	---
alkali sacaton	SPAI	2-5	---	---	---	---	---	---
basin wildrye	ELCI2	40-60	---	---	---	---	---	---
bluegrass	POA++	2-5	---	---	---	---	---	---
bottlebrush squirreltail	SIHY	---	---	---	2-5	---	2-5	2-5
galleta	HIJA	---	2-8	---	2-5	2-5	2-5	---
needleandthread	STCO4	---	2-10	---	5-10	15-25	---	---
sand dropseed	SPCR	---	---	---	---	2-5	2-5	---
western wheatgrass	AGSM	5-10	---	---	---	---	---	---
wheatgrass	AGROP2	---	---	---	---	2-8	---	---
globemallow	SPHAE	---	---	---	---	---	2-5	---
princesplume	STANL	---	---	---	---	---	2-5	---
scarlet globemallow	SFCO	---	---	---	2-5	---	---	---
Nevada ephedra	EPNE	---	---	---	---	---	2-5	---
Wyoming big sagebrush	ARTRW	---	---	---	25-35	10-20	---	---
basin big sagebrush	ARTRT	5-15	---	---	---	---	---	---
black greasewood	SAVE4	2-5	---	---	---	---	---	15-25
black sagebrush	ARARN	---	15-30	---	---	---	---	---
bud sagebrush	ARSP5	---	---	---	2-5	---	2-5	---
fourwing saltbush	ATCA2	---	---	---	---	5-15	---	---
horsebrush	TETRA3	---	---	---	---	---	5-10	---
rubber rabbitbrush	CHNA2	2-5	---	---	---	---	---	---
shadscale	ATCO	---	2-5	---	2-5	---	15-25	---
spiny hopsage	GRSP	---	---	---	5-15	---	---	40-60
winterfat	EULAS	---	5-10	---	---	5-10	5-10	---
Range site number		028BY041NV	028AY004NV	None	028AY028NV	028AY005NV	028AY014NV	028AY032NV
Potential production (lb/acre):								
Favorable years		1800	500		900	1000	600	1000
Normal years		1500	325		700	700	400	800
Unfavorable years		1100	100		400	400	200	600

1620--KOLDA-DUFFER-SONOMA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		KOLDA	DUFFER	SONOMA	Inclusion 1	Inclusion 2	Inclusion 3
Baltic rush	JUBA	---	2-8	---	---	---	---
alkali cordgrass	SPGR	---	10-15	---	---	---	---
alkali sacaton	SPAI	---	40-50	---	15-40	---	---
alkaligrass	PUCCI	---	2-5	---	---	---	---
basin wildrye	ELCI2	---	---	---	40-60	---	2-5
bluegrass	POA++	---	2-8	---	---	T-20	25-40
bluejoint reedgrass	CACA4	---	---	70-80	---	---	---
bulrush	SCIRP	30-50	---	---	---	---	---
cattail	TYPHA	20-40	---	---	---	---	---
foxtail barley	HOJU	---	---	---	---	1-20	---
giantreed	ARDO4	5-10	---	---	---	---	---
inland saltgrass	DISPS2	---	2-5	---	2-5	---	---
mat muhly	MURI	---	---	---	---	T-8	2-5
rush	JunCU	2-8	---	2-5	---	T-20	5-15
sedge	CAREX	2-8	5-10	2-8	---	T-20	20-30
western wheatgrass	AGSM	---	---	---	2-5	---	---
cinquefoil	POTEN	---	---	2-8	---	T-10	2-5
groundsel	SENEC	---	---	---	---	---	2-5
povertyweed	IVAX	---	---	---	---	T-20	---
black greasewood	SAVE4	---	---	---	5-15	---	---
rubber rabbitbrush	CHNA2	---	---	---	2-5	---	---
Range site number		028BY044NV	028BY002NV	028BY099NV	028BY004NV	028BY098NV	028BY001NV
Potential production (lb/acre):							
Favorable years		4000	1500	1600	2200	1500	4000
Normal years		2800	1000	1200	1500	400	2000
Unfavorable years		2000	700	800	800	0	1200

1621--KOLDA-RUBYLAKE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		KOLDA	RUBYLAKE	KOLDA	Inclusion 1	Inclusion 2
Baltic rush	JUBA	---	2-8	---	---	---
alkali cordgrass	SPGR	---	10-15	---	---	---
alkali sacaton	SPAI	---	40-50	---	---	---
alkaligrass	PUCCI	---	2-5	---	---	---
bluegrass	POA++	---	2-8	---	---	T-20
bulrush	SCIRP	30-50	---	30-50	---	---
cattail	TYPHA	20-40	---	20-40	---	---
foxtail barley	HOJU	---	---	---	---	1-20
giantreed	ARDO4	5-10	---	5-10	---	---
inland saltgrass	DISPS2	---	2-5	---	---	---
mat muhly	MURI	---	---	---	---	T-8
rush	JunCU	2-8	---	2-8	---	T-20
sedge	CAREX	2-8	5-10	2-8	---	T-20
cinquefoil	POTEN	---	---	---	---	T-10
povertyweed	IVAX	---	---	---	---	T-20
Range site number		028BY044NV	028BY002NV	028BY044NV	None	028BY098NV
Potential production (lb/acre):						
Favorable years		4000	1500	4000		1500
Normal years		2800	1000	2800		400
Unfavorable years		2000	700	2000		0

1622--KOLDA SILT LOAM, 0 TO 1 PERCENT SLOPES

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions		
		Soil name or Inclusion number--		
		KOLDA	Inclusion 1	Inclusion 2
Baltic rush	JUBA	---	2-5	2-8
alkali bluegrass	POJU	---	2-10	---
alkali cordgrass	SPGR	---	---	10-15
alkali muhly	MUAS	---	2-5	---
alkali sacaton	SPAI	---	2-10	40-50
alkaligrass	PUCCI	---	---	2-5
bluegrass	POA++	---	---	2-8
bulrush	SCIRP	30-50	---	---
cattail	TYPHA	20-40	---	---
giantreed	ARDO4	5-10	---	---
inland saltgrass	DISPS2	---	5-15	2-5
rush	JunCU	2-8	---	---
sedge	CAREX	2-8	10-20	5-10
western wheatgrass	AGSM	---	35-50	---
wildrye	ELYMU	---	5-15	---
Range site number		028BY044NV	028BY012NV	028BY002NV
Potential production (lb/acre):				
Favorable years		4000	2000	1500
Normal years		2800	1500	1000
Unfavorable years		2000	1000	700

1623--KOLDA-WATER ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		KOLDA	WATER	Inclusion 1	Inclusion 2
Baltic rush	JUBA	---	---	2-5	2-8
alkali bluegrass	POJU	---	---	2-10	---
alkali cordgrass	SPGR	---	---	---	10-15
alkali muhly	MUAS	---	---	2-5	---
alkali sacaton	SPAI	---	---	2-10	40-50
alkaligrass	PUCCI	---	---	---	2-5
bluegrass	POA++	---	---	---	2-8
bulrush	SCIRP	30-50	---	---	---
cattail	TYPHA	20-40	---	---	---
giantreed	ARDO4	5-10	---	---	---
inland saltgrass	DISPS2	---	---	5-15	2-5
rush	JunCU	2-8	---	---	---
sedge	CAREX	2-8	---	10-20	5-10
western wheatgrass	AGSM	---	---	35-50	---
wildrye	ELYMU	---	---	5-15	---
Range site number		028BY044NV	None	028BY012NV	028BY002NV
Potential production (lb/acre):					
Favorable years		4000		2000	1500
Normal years		2800		1500	1000
Unfavorable years		2000		1000	700

1630--POOKALOO-CAVEHILL, COOL-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		POOKALOO	CAVEHILL	ROCK OUTCROP	Inclusion 1	Inclusion 2
Canby bluegrass	POCA	---	X	---	---	X
Idaho fescue	FEID	---	---	---	15-25	---
Indian ricegrass	ORRY	X	X	---	---	X
Sandberg bluegrass	POSE	---	---	---	---	X
Thurber needlegrass	STTH2	X	---	---	---	X
basin wildrye	ELCI2	X	---	---	---	X
bluebunch wheatgrass	AGSP	X	X	---	5-15	X
bluegrass	POA++	X	X	---	2-5	---
bottlebrush squirreltail	SIHY	X	X	---	---	X
needlegrass	STIPA	---	---	---	2-8	---
arrowleaf balsamroot	BASA3	X	X	---	---	X
tapertip hawksbeard	CRAC2	X	X	---	---	X
Stansbury cliffrose	COMES	X	---	---	---	---
Wyoming big sagebrush	ARTRW	---	X	---	---	---
antelope bitterbrush	PTR2	X	X	---	2-5	X
black sagebrush	ARARN	X	---	---	---	---
curlleaf mountainmahogany	CELE3	X	---	---	---	---
ephedra	EPHED	---	X	---	---	X
mountain big sagebrush	ARVA2	---	---	---	5-15	X
serviceberry	AMELA	X	---	---	---	X
snowberry	SYMPH	---	---	---	2-8	---
Utah juniper	JUOS	X	X	---	---	X
singleleaf pinyon	PIMO	X	X	---	---	X
Range site number		028BY060NV	028BY061NV	None	025XY071NV	028BY062NV
Potential production (lb/acre):						
Favorable years		500	500		1700	700
Normal years		300	300		1300	500
Unfavorable years		250	200		900	300

1631--POOKALOO-TECOMar-WARDBAY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		POOKALOO	TECOMar	WARDBAY	Inclusion 1	Inclusion 2	Inclusion 3
Canby bluegrass	POCA	---	---	---	X	---	---
Idaho fescue	FEID	---	---	30-40	---	---	---
Indian ricegrass	ORHY	X	10-20	---	---	---	---
Nevada bluegrass	PONE3	---	---	2-5	---	---	5-10
Sandberg bluegrass	POSE	---	---	---	X	---	---
Thurber needlegrass	STTH2	X	---	---	---	---	---
basin wildrye	ELCY2	X	---	2-10	X	---	60-70
bluebunch wheatgrass	AGSP	X	20-40	15-30	X	---	---
bluegrass	POA++	X	2-5	---	---	---	---
bottlebrush squirreltail	SIHY	X	---	---	X	---	---
mat muhly	MURI	---	---	---	---	---	2-8
muttongrass	POPE	---	---	---	X	---	---
needleandthread	STCO4	---	2-5	---	---	---	---
streambank wheatgrass	AGDAR	---	---	---	---	---	2-8
arrowleaf balsamroot	BASA3	X	---	2-5	X	---	---
goldenweed	HAPLO2	---	2-5	---	---	---	---
tapertip hawksbeard	CRAC2	X	2-5	2-5	X	---	---
Stansbury cliffrose	COMES	X	---	---	---	---	---
antelope bitterbrush	PUTR2	X	---	5-10	X	---	---
basin big sagebrush	ARTRT	---	---	---	---	---	5-10
black sagebrush	ARARN	X	25-35	---	---	---	---
curlleaf mountainmahogany	CELE3	X	---	---	X	---	---
mountain big sagebrush	ARVA2	---	---	10-20	X	---	---
serviceberry	AMELA	X	---	---	X	---	---
shadscale	ATCO	---	2-5	---	---	---	---
snowberry	SYMPH	---	---	---	X	---	---
winterfat	EULA5	---	2-5	---	---	---	---
Utah juniper	JUOS	X	---	---	X	---	---
singleleaf pinyon	PIMO	X	---	---	X	---	---
Range site number		028BY060NV	028BY008NV	025XY012NV	028BY058NV	None	025XY003NV
Potential production (lb/acre):							
Favorable years		500	600	1400	500		4500
Normal years		300	400	1000	300		3500
Unfavorable years		250	200	700	200		2000

1640--JunGO ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		JunGO	JunGO	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	10-25	20-30	20-30	2-10	10-25	15-25
Sandberg bluegrass	POSE	2-5	---	---	2-8	2-5	2-5
bluebunch wheatgrass	AGSP	---	---	---	---	---	2-8
bottlebrush squirreltail	SIHY	---	---	---	---	---	2-5
galleta	HIJA	2-8	2-5	2-5	1-5	2-8	2-8
needleandthread	STCO4	2-10	15-25	15-25	1-5	2-10	---
sand dropseed	SPCR	---	2-5	2-5	---	---	---
globemallow	SPHA8	---	2-5	2-5	---	---	---
Nevada ephedra	EPNE	---	---	---	5-10	---	---
Utah juniper	JUOS	---	---	---	---	---	5-15
big sagebrush	ARTR2	---	---	---	30-45	---	---
black sagebrush	ARARN	15-30	15-30	15-30	---	15-30	40-50
fourwing saltbush	ATCA2	---	2-8	2-8	---	---	---
horsebrush	TETRA3	---	---	---	2-8	---	---
other shrubs	SSSS	---	---	---	5-25	---	---
rubber rabbitbrush	CHNA2	---	---	---	5-20	---	---
shadscale	ATCO	2-5	---	---	---	2-5	---
spiny hopsage	GRSP	---	---	---	2-8	---	---
winterfat	EULA5	5-10	2-5	2-5	---	5-10	---

Range site number	028AY004NV	028AY013NV	028AY013NV	028AY038NV	028AY004NV	028AY027NV
Potential production (lb/acre):						
Favorable years	500	700	700	1000	500	400
Normal years	325	500	500	700	325	350
Unfavorable years	100	300	300	500	100	125

1650--SHANTOWN-ZORRAVISTA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SHANTOWN	ZORRAVISTA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	20-30	15-25	20-30	20-30	20-30	2-5
Sandberg bluegrass	POSE	2-5	---	2-5	2-5	2-5	---
Thurber needlegrass	STTH2	---	---	---	---	---	30-40
bluebunch wheatgrass	AGSP	---	---	---	---	---	15-30
bluegrass	POA++	---	---	---	---	---	2-8
bottlebrush squirreltail	SIHY	2-8	---	2-8	2-8	2-8	---
needleandthread	STCO4	10-20	15-25	10-20	10-20	10-20	2-8
thickspike wheatgrass	AGDA	---	5-15	---	---	---	---
arrowleaf balsamroot	BASA3	---	---	---	---	---	2-5
tapertip hawksbeard	CRAC2	---	---	---	---	---	2-5
Wyoming big sagebrush	ARTRW	25-35	---	25-35	25-35	25-35	---
antelope bitterbrush	PUTR2	---	---	---	---	---	2-10
big sagebrush	ARTR2	---	15-25	---	---	---	15-25
fourwing saltbush	ATCA2	---	2-8	---	---	---	---
rabbitbrush	CHRS9	2-5	2-5	2-5	2-5	2-5	---
winterfat	EULA5	---	2-5	---	---	---	---
Range site number		028BY010NV	028BY005NV	028BY010NV	028BY010NV	028BY010NV	028BY007NV
Potential production (lb/acre):							
Favorable years		800	800	800	800	800	1000
Normal years		600	600	600	600	600	800
Unfavorable years		400	400	400	400	400	600

1651--SHANTOWN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		SHANTOWN	SHANTOWN	Inclusion 1	Inclusion 2
Indian ricegrass	ORBY	20-30	2-5	---	2-10
Sandberg bluegrass	POSE	2-5	---	---	---
Thurber needlegrass	STTH2	---	30-40	---	---
alkali sacaton	SPAI	---	---	15-40	---
basin wildrye	ELCI2	---	---	40-60	10-20
bluebunch wheatgrass	AGSP	---	15-30	---	---
bluegrass	POA++	---	2-8	---	---
bottlebrush squirreltail	SIHY	2-8	---	---	---
inland saltgrass	DISPS2	---	---	2-5	---
needleandthread	STCO4	10-20	2-8	---	---
western wheatgrass	AGSM	---	---	2-5	---
arrowleaf balsamroot	BASA3	---	2-5	---	---
tapertip hawksbeard	CRAC2	---	2-5	---	---
Wyoming big sagebrush	ARTRW	25-35	---	---	---
antelope bitterbrush	PTR2	---	2-10	---	---
big sagebrush	ARTR2	---	15-25	---	20-30
black greasewood	SAVE4	---	---	5-15	30-40
rabbitbrush	CHRY9	2-5	---	---	---
rubber rabbitbrush	CHNA2	---	---	2-5	2-5
Range site number		028BY010NV	028BY007NV	028BY004NV	028BY028NV
Potential production (lb/acre):					
Favorable years		800	1000	2200	800
Normal years		600	800	1500	600
Unfavorable years		400	600	800	400

1660--WENDANE-LOGAN ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		WENDANE	LOGAN	Inclusion 1	Inclusion 2	Inclusion 3
Baltic rush	JUBA	2-8	---	---	---	---
alkali cordgrass	SPGR	10-15	---	---	---	---
alkali sacaton	SPAI	40-50	5-15	---	15-40	---
alkaligrass	PUCCI	2-5	---	---	---	---
basin wildrye	ELCI2	---	2-8	2-5	40-60	---
bluegrass	POA++	2-8	25-50	25-40	---	---
bulrush	SCIRP	---	---	---	---	30-50
cattail	TYPHA	---	---	---	---	20-40
giantreed	ARDO4	---	---	---	2-5	5-10
inland saltgrass	DISPS2	2-5	---	---	2-5	---
mat muhly	MURI	---	30-40	2-5	---	---
rush	JunCU	---	---	5-15	---	2-8
sedge	CAREX	5-10	---	20-30	---	2-8
western wheatgrass	AGSM	---	2-8	---	2-5	---
cinquefoil	POTEN	---	---	2-5	---	---
groundsel	SENEC	---	---	2-5	---	---
black greasewood	SAVE4	---	---	---	5-15	---
rubber rabbitbrush	CHNA2	---	---	---	2-5	---
Range site number		028BY002NV	028BY100NV	028BY001NV	028BY004NV	028BY044NV
Potential production (lb/acre):						
Favorable years		1500	1500	4000	2200	4000
Normal years		1000	1100	2000	1500	2800
Unfavorable years		700	700	1200	800	2000

1670--WENDANE-LOGAN-WENDANE, OCCASIONALLY FLOODED ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		WENDANE	LOGAN	WENDANE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	---	---	2-8	---	---	---	---
alkali cordgrass	SPGR	---	---	10-15	---	---	---	---
alkali sacaton	SPAI	15-40	5-15	40-50	---	---	---	20-30
alkaligrass	PUCCI	---	---	2-5	---	---	---	---
basin wildrye	ELCI2	40-60	2-8	---	---	10-20	---	2-5
bluegrass	POA++	---	25-50	2-8	---	---	T-20	---
bottlebrush squirreltail	SIHY	---	---	---	---	2-5	---	---
foxtail barley	HOJU	---	---	---	---	---	1-20	---
inland saltgrass	DISPS2	2-5	---	2-5	---	2-10	---	---
mat muhly	MURI	---	30-40	---	---	---	T-8	30-40
rush	JunCU	---	---	---	---	---	T-20	5-10
sedge	CAREX	---	---	5-10	---	---	T-20	---
western wheatgrass	AGSM	2-5	2-8	---	---	---	---	---
aster	ASTER	---	---	---	---	---	---	2-5
cinquefoil	POTEN	---	---	---	---	---	T-10	---
povertyweed	IVAX	---	---	---	---	---	T-20	---
Douglas rabbitbrush	CHVI8	---	---	---	---	---	---	1-5
basin big sagebrush	ARTRT	---	---	---	---	---	---	2-5
black greasewood	SAVE4	5-15	---	---	---	50-60	---	1-5
rubber rabbitbrush	CHNA2	2-5	---	---	---	---	---	5-10
Range site number		028BY004NV	028BY100NV	028BY002NV	None	028BY069NV	028BY098NV	028BY031NV
Potential production (lb/acre):								
Favorable years		2200	1500	1500		800	1500	1200
Normal years		1500	1100	1000		600	400	1000
Unfavorable years		800	700	700		400	0	400

1680--RUBYLAKE-KOLDA-WENDANE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		RUBYLAKE	KOLDA	WENDANE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	2-8	---	---	---	---	---	---
alkali cordgrass	SPGR	10-15	---	---	---	---	---	---
alkali sacaton	SPAI	40-50	---	15-40	5-15	---	5-10	---
alkaligrass	PUCCI	2-5	---	---	---	---	---	---
basin wildrye	ELCI2	---	---	40-60	2-8	---	2-5	---
bluegrass	POA++	2-8	---	---	25-50	T-20	---	---
bulrush	SCIRP	---	30-50	---	---	---	---	---
cattail	TYPHA	---	20-40	---	---	---	---	---
foxtail barley	HOJU	---	---	---	---	1-20	---	---
giantreed	ARDO4	---	5-10	---	---	---	---	---
inland saltgrass	DISPS2	2-5	---	2-5	---	---	2-8	---
mat muhly	MURI	---	---	---	30-40	T-8	---	---
rush	JunCU	---	2-8	---	---	T-20	---	---
sedge	CAREX	5-10	2-8	---	---	T-20	---	---
western wheatgrass	AGSM	---	---	2-5	2-8	---	---	---
cinquefoil	POTEN	---	---	---	---	T-10	---	---
povertyweed	IVAX	---	---	---	---	T-20	---	---
black greasewood	SAVE4	---	---	5-15	---	---	60-75	---
rubber rabbitbrush	CHNA2	---	---	2-5	---	---	2-5	---
shadscale	ATCO	---	---	---	---	---	2-5	---
Range site number		028BY002NV	028BY044NV	028BY004NV	028BY100NV	028BY098NV	028BY020NV	None
Potential production (lb/acre):								
Favorable years		1500	4000	2200	1500	1500	500	
Normal years		1000	2800	1500	1100	400	300	
Unfavorable years		700	2000	800	700	0	150	

1681--WENDANE-LOGAN-UMBERLAND ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		WENDANE	LOGAN	UMBERLAND	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
alkali sacaton	SPAI	15-40	5-15	5-10	5-15	5-10	15-40	---
basin wildrye	ELCI2	40-60	2-8	2-5	2-8	2-5	40-60	---
bluegrass	POA++	---	25-50	---	25-50	---	---	T-20
foxtail barley	HOJU	---	---	---	---	---	---	1-20
inland saltgrass	DISPS2	2-5	---	2-8	---	2-8	2-5	---
mat muhly	MURI	---	30-40	---	30-40	---	---	T-8
rush	JunCU	---	---	---	---	---	---	T-20
sedge	CAREX	---	---	---	---	---	---	T-20
western wheatgrass	AGSM	2-5	2-8	---	2-8	---	2-5	---
cinquefoil	POTEN	---	---	---	---	---	---	T-10
povertyweed	IVAX	---	---	---	---	---	---	T-20
black greasewood	SAVE4	5-15	---	60-75	---	60-75	5-15	---
rubber rabbitbrush	CHNA2	2-5	---	2-5	---	2-5	2-5	---
shadscale	ATCO	---	---	2-5	---	2-5	---	---
Range site number		028BY004NV	028BY100NV	028BY020NV	028BY100NV	028BY020NV	028BY004NV	028BY098NV
Potential production (lb/acre):								
Favorable years		2200	1500	500	1500	500	2200	1500
Normal years		1500	1100	300	1100	300	1500	400
Unfavorable years		800	700	150	700	150	800	0

1690--KRENKA-SECREPASS ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		KRENKA	SECREPASS	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	2-5	---	---	---	---	---
Idaho fescue	FEID	2-10	40-50	---	---	---	15-30
Nevada bluegrass	PONE3	2-5	---	40-60	---	5-10	---
alpine timothy	PHAL2	---	---	20-40	---	5-10	---
basin wildrye	ELCI2	---	---	2-8	---	---	---
bluebunch wheatgrass	AGSP	2-5	2-5	---	---	---	---
bluegrass	POA++	---	5-15	---	X	---	---
bulbous oniongrass	MEBU	---	---	---	---	---	2-8
mat muhly	MURI	---	---	2-8	---	---	---
meadow barley	HOBK2	---	---	2-5	---	---	---
mountain brome	BRCA5	5-15	---	---	---	---	10-20
onespike oatgrass	DAUN	---	2-10	---	---	---	---
rush	JunCU	---	---	---	X	---	---
sedge	CAREX	---	---	2-8	X	5-10	---
slender wheatgrass	AGTR	5-15	---	---	---	---	2-8
spike-fescue	LEKI2	2-10	---	---	---	---	---
streambank wheatgrass	AGDAR	---	---	---	X	---	---
tufted hairgrass	DecE	---	---	---	---	30-60	---
western wheatgrass	AGSM	---	---	---	X	---	---
Sierra clover	TRWO	---	---	---	---	2-5	---
cinquefoil	POTEN	---	---	---	---	2-5	---
clover	TRIPO	---	---	---	X	---	---
lupine	LUPIN	---	---	---	---	---	10-15
wyethia	WYETH	---	---	---	---	---	20-30
yarrow	ACHIL	---	---	---	X	---	---
Utah serviceberry	AMUT	1-5	---	---	---	---	---
Woods rose	ROWO	---	---	---	X	---	---
antelope bitterbrush	PUTR2	1-5	---	---	---	---	---
common chokecherry	PRVI	1-5	---	---	---	---	---
currant	RIBES	---	---	---	X	---	---
low sagebrush	ARAR8	---	10-20	---	---	---	---
mountain big sagebrush	ARVA2	5-15	---	---	---	---	---
snowberry	SYMPH	2-15	---	---	---	---	---
narrowleaf cottonwood	POAN3	---	---	---	X	---	---
willow	SALIX	---	---	---	X	---	---

Range site number	025XY004NV	025XY032NV	025XY006NV	025XY053NV	025XY005NV	025XY047NV
Potential production (lb/acre):						
Favorable years	2800	800	2000	2500	3000	2000
Normal years	1800	600	1300	2000	1700	1500
Unfavorable years	1200	400	800	1000	1000	1000

1700--HEECHEE-RUBICITY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HEECHEE	RUBICITY	HEECHEE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	---	2-5	---	---	---
Idaho fescue	FEID	15-30	30-40	15-30	2-10	X	30-50	---
Nevada bluegrass	PONE3	---	2-5	---	2-5	X	---	40-60
Thurber needlegrass	STTH2	2-5	---	2-5	---	---	---	---
alpine timothy	PHAL2	---	---	---	---	---	---	20-40
basin wildrye	ELCI2	---	2-10	---	---	---	---	2-8
bluebunch wheatgrass	AGSP	10-20	15-30	10-20	2-5	---	15-30	---
bluegrass	POA++	---	---	---	---	---	2-10	---
mat muhly	MURI	---	---	---	---	---	---	2-8
meadow barley	HOB2	---	---	---	---	---	---	2-5
mountain brome	BRCA5	---	---	---	5-15	X	---	---
sedge	CAREX	---	---	---	5-15	X	---	2-8
slender wheatgrass	AGTR	---	---	---	---	---	---	---
spike-fescue	LEKI2	---	---	---	2-10	---	---	---
arrowleaf balsamroot	BASA3	---	2-5	---	---	---	---	---
groundsel	SENEC	---	---	---	---	X	---	---
tapertip hawksbeard	CRAC2	---	2-5	---	---	---	---	---
yarrow	ACHIL	---	---	---	---	X	---	---
Utah serviceberry	AMUT	---	---	---	1-5	---	---	---
Woods rose	ROWO	---	---	---	---	X	---	---
antelope bitterbrush	PATR2	20-40	5-10	20-40	1-5	---	2-5	---
common chokecherry	PRVI	---	---	---	1-5	---	---	---
low sagebrush	ARAR8	---	---	---	---	---	15-25	---
mountain big sagebrush	ARVA2	5-10	10-20	5-10	5-15	---	---	---
snowberry	SYMPH	---	---	---	2-15	---	---	---
quaking aspen	POTRT	---	---	---	---	X	---	---

Range site number	025XY007NV	025XY012NV	025XY007NV	025XY004NV	025XY064NV	025XY017NV	025XY006NV
Potential production (lb/acre):							
Favorable years	2300	1400	2300	2800	1600	900	2000
Normal years	1400	1000	1400	1800	1300	700	1300
Unfavorable years	900	700	900	1200	1000	400	800

1702--HEECHEE-MCIVEY-RUBICITY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		HEECHEE	MCIVEY	RUBICITY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	15-30	30-40	30-40	---	---	X	---
Nevada bluegrass	PONE3	---	2-5	2-5	---	5-10	X	5-10
Thurber needlegrass	STTH2	2-5	---	---	10-20	---	---	---
alpine timothy	PHAL2	---	---	---	---	---	---	5-10
basin wildrye	ELCI2	---	2-10	2-10	2-8	60-70	---	---
bluebunch wheatgrass	AGSP	10-20	15-30	15-30	20-35	---	---	---
bluegrass	POA++	---	---	---	2-10	---	---	---
mat muhly	MURI	---	---	---	---	2-8	---	---
mountain brome	BRCA5	---	---	---	---	---	X	---
sedge	CAREX	---	---	---	---	---	X	5-10
slender wheatgrass	AGTR	---	---	---	---	---	X	---
streambank wheatgrass	AGDAR	---	---	---	---	2-8	---	---
tufted hairgrass	DecE	---	---	---	---	---	---	30-60
Sierra clover	TRWO	---	---	---	---	---	---	2-5
arrowleaf balsamroot	BASA3	---	2-5	2-5	---	---	---	---
cinquefoil	POTEN	---	---	---	---	---	---	2-5
groundsel	SENEC	---	---	---	---	---	X	---
tapertip hawkbeard	CRAC2	---	2-5	2-5	---	---	---	---
yarrow	ACHIL	---	---	---	---	---	X	---
Woods rose	ROWO	---	---	---	---	---	X	---
antelope bitterbrush	PUTR2	20-40	5-10	5-10	2-8	---	---	---
basin big sagebrush	ARTR2	---	---	---	---	5-10	---	---
big sagebrush	ARTR2	---	---	---	10-20	---	---	---
mountain big sagebrush	ARVA2	5-10	10-20	10-20	---	---	---	---
quaking aspen	POTRT	---	---	---	---	---	X	---

Range site number	025XY007NV	025XY012NV	025XY012NV	025XY014NV	025XY003NV	025XY064NV	025XY005NV
Potential production (lb/acre):							
Favorable years	2300	1400	1400	1000	4500	1600	3000
Normal years	1400	1000	1000	800	3500	1300	1700
Unfavorable years	900	700	700	600	2000	1000	1000

1710--JAMES CANYON-WENDANE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		JAMES CANYON	WENDANE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	---	---	---	---	2-8	---
alkali cordgrass	SPGR	---	---	---	---	10-15	---
alkali sacaton	SPAI	5-15	15-40	---	20-30	40-50	5-15
alkaligrass	PUCCI	---	---	---	---	2-5	---
basin wildrye	ELCI2	2-8	40-60	2-5	2-5	---	2-8
bluegrass	POA++	25-50	---	25-40	---	2-8	25-50
inland saltgrass	DISPS2	---	2-5	---	---	2-5	---
mat muhly	MURI	30-40	---	2-5	30-40	---	30-40
rush	JunCU	---	---	5-15	5-10	---	---
sedge	CAREX	---	---	20-30	---	5-10	---
western wheatgrass	AGSM	2-8	2-5	---	---	---	2-8
aster	ASTER	---	---	---	2-5	---	---
cinquefoil	POTEN	---	---	2-5	---	---	---
groundsel	SENEC	---	---	2-5	---	---	---
Douglas rabbitbrush	CHVI8	---	---	---	1-5	---	---
basin big sagebrush	ARTRT	---	---	---	2-5	---	---
black greasewood	SAVE4	---	5-15	---	1-5	---	---
rubber rabbitbrush	CHNA2	---	2-5	---	5-10	---	---
Range site number		028BY100NV	028BY004NV	028BY001NV	028BY031NV	028BY002NV	028BY100NV
Potential production (lb/acre):							
Favorable years		1500	2200	4000	1200	1500	1500
Normal years		1100	1500	2000	1000	1000	1100
Unfavorable years		700	800	1200	400	700	700

1711--JAMES CANYON-WENDANE-WENDANE, OCCASIONALLY FLOODED ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		JAMES CANYON	WENDANE	WENDANE	Inclusion 1	Inclusion 2	Inclusion 3
Baltic rush	JUBA	---	---	2-8	---	---	---
Indian ricegrass	ORHY	---	---	---	2-10	---	---
alkali cordgrass	SPGR	---	---	10-15	---	---	---
alkali sacaton	SPAI	5-15	15-40	40-50	---	5-15	20-30
alkaligrass	PUCCI	---	---	2-5	---	---	---
basin wildrye	ELCI2	2-8	40-60	---	10-20	2-8	2-5
bluegrass	POA++	25-50	---	2-8	---	25-50	---
inland saltgrass	DISPS2	---	2-5	2-5	---	---	---
mat muhly	MURI	30-40	---	---	---	30-40	30-40
rush	JunCU	---	---	---	---	---	5-10
sedge	CAREX	---	---	5-10	---	---	---
western wheatgrass	AGSM	2-8	2-5	---	---	2-8	---
aster	ASTER	---	---	---	---	---	2-5
Douglas rabbitbrush	CHVI8	---	---	---	---	---	1-5
basin big sagebrush	ARTRT	---	---	---	---	---	2-5
big sagebrush	ARTR2	---	---	---	20-30	---	---
black greasewood	SAVE4	---	5-15	---	30-40	---	1-5
rubber rabbitbrush	CHNA2	---	2-5	---	2-5	---	5-10
Range site number		028BY100NV	028BY004NV	028BY002NV	028BY028NV	028BY100NV	028BY031NV
Potential production (lb/acre):							
Favorable years		1500	2200	1500	800	1500	1200
Normal years		1100	1500	1000	600	1100	1000
Unfavorable years		700	800	700	400	700	400

1720--WELCH LOAM, 0 TO 4 PERCENT SLOPES

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions			
		Soil name or Inclusion number--			
		WELCH	Inclusion 1	Inclusion 2	Inclusion 3
alkali sacaton	SPAI	---	---	5-15	---
basin wildrye	ELCI2	2-5	2-5	2-8	2-5
bluegrass	POA++	25-40	25-40	25-50	25-40
mat muhly	MURI	2-5	2-5	30-40	2-5
rush	JunCU	5-15	5-15	---	5-15
sedge	CAREX	20-30	20-30	---	20-30
western wheatgrass	AGSM	---	---	2-8	---
cinquefoil	POTEN	2-5	2-5	---	2-5
groundsel	SENEC	2-5	2-5	---	2-5
Range site number		028BY001NV	028BY001NV	028BY100NV	028BY001NV
Potential production (lb/acre):					
Favorable years		4000	4000	1500	4000
Normal years		2000	2000	1100	2000
Unfavorable years		1200	1200	700	1200

1721--WELCH-WELSUM COMPLEX

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		WELCH	WELSUM	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Baltic rush	JUBA	---	---	---	2-8	---	---
alkali cordgrass	SPGR	---	---	---	10-15	---	---
alkali sacaton	SPAI	---	5-15	15-40	40-50	---	5-15
alkaligrass	PUCCI	---	---	---	2-5	---	---
basin wildrye	ELCI2	2-5	2-8	40-60	---	2-5	2-8
bluegrass	POA++	25-40	25-50	---	2-8	25-40	25-50
inland saltgrass	DISPS2	---	---	2-5	2-5	---	---
mat muhly	MURI	2-5	30-40	---	---	2-5	30-40
rush	JunCU	5-15	---	---	---	5-15	---
sedge	CAREX	20-30	---	---	5-10	20-30	---
western wheatgrass	AGSM	---	2-8	2-5	---	---	2-8
cinquefoil	POTEN	2-5	---	---	---	2-5	---
groundsel	SENEC	2-5	---	---	---	2-5	---
black greasewood	SAVE4	---	---	5-15	---	---	---
rubber rabbitbrush	CHNA2	---	---	2-5	---	---	---
Range site number		028BY001NV	028BY100NV	028BY004NV	028BY002NV	028BY001NV	028BY100NV
Potential production (lb/acre):							
Favorable years		4000	1500	2200	1500	4000	1500
Normal years		2000	1100	1500	1000	2000	1100
Unfavorable years		1200	700	800	700	1200	700

1722--WELCH-SLIPBACK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		WELCH	SLIPBACK	WELCH	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	2-10	---	---	2-10	---
alkali sacaton	SPAI	20-30	---	5-15	15-40	---	20-30
basin wildrye	ELCI2	2-5	10-20	2-8	40-60	10-20	2-5
bluegrass	POA++	---	---	25-50	---	---	---
inland saltgrass	DISPS2	---	---	---	2-5	---	---
mat muhly	MURI	30-40	---	30-40	---	---	30-40
rush	JunCU	5-10	---	---	---	---	5-10
western wheatgrass	AGSM	---	---	2-8	2-5	---	---
aster	ASTER	2-5	---	---	---	---	2-5
Douglas rabbitbrush	CHVI8	1-5	---	---	---	---	1-5
basin big sagebrush	ARTRT	2-5	---	---	---	---	2-5
big sagebrush	ARTR2	---	20-30	---	---	20-30	---
black greasewood	SAVE4	1-5	30-40	---	5-15	30-40	1-5
rubber rabbitbrush	CHNA2	5-10	2-5	---	2-5	2-5	5-10
Range site number		028BY031NV	028BY028NV	028BY100NV	028BY004NV	028BY028NV	028BY031NV
Potential production (lb/acre):							
Favorable years		1200	800	1500	2200	800	1200
Normal years		1000	600	1100	1500	600	1000
Unfavorable years		400	400	700	800	400	400

1723--WELCH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		WELCH	WELCH	Inclusion 1	Inclusion 2	Inclusion 3
Nevada bluegrass	PONE3	---	5-10	---	---	---
alkali sacaton	SPAI	5-15	---	15-40	5-15	---
basin wildrye	ELCI2	2-8	60-70	40-60	2-8	2-5
bluegrass	POA++	25-50	---	---	25-50	25-40
inland saltgrass	DISPS2	---	---	2-5	---	---
mat muhly	MURI	30-40	2-8	---	30-40	2-5
rush	JunCU	---	---	---	---	5-15
sedge	CAREX	---	---	---	---	20-30
streambank wheatgrass	AGDAR	---	2-8	---	---	---
western wheatgrass	AGSM	2-8	---	2-5	2-8	---
cinquefoil	POTEN	---	---	---	---	2-5
groundsel	SENEC	---	---	---	---	2-5
basin big sagebrush	ARTRT	---	5-10	---	---	---
black greasewood	SAVE4	---	---	5-15	---	---
rubber rabbitbrush	CHNA2	---	---	2-5	---	---
Range site number		028BY100NV	025XY003NV	028BY004NV	028BY100NV	028BY001NV
Potential production (lb/acre):						
Favorable years		1500	4500	2200	1500	4000
Normal years		1100	3500	1500	1100	2000
Unfavorable years		700	2000	800	700	1200

1730--MCIVEY-DONNA ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		MCIVEY	DONNA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	---	---	2-5	---
Idaho fescue	FEID	30-40	---	X	---	2-10	30-40
Nevada bluegrass	PONE3	2-5	---	X	---	2-5	2-5
Sandberg bluegrass	POSE	---	2-8	---	---	---	---
Thurber needlegrass	STTH2	---	15-30	---	10-20	---	---
Webber needlegrass	STWE	---	2-8	---	---	---	---
basin wildrye	ELCI2	2-10	---	---	2-8	---	2-10
bluebunch wheatgrass	AGSP	15-30	20-40	---	20-35	2-5	15-30
bluegrass	POA++	---	---	---	2-10	---	---
mountain brome	BRCAS	---	---	X	---	5-15	---
sedge	CAREX	---	---	X	---	---	---
slender wheatgrass	AGTR	---	---	X	---	5-15	---
spike-fescue	LEKI2	---	---	---	---	2-10	---
arrowleaf balsamroot	BASA3	2-5	---	---	---	---	2-5
groundsel	SENEC	---	---	X	---	---	---
tapertip hawksbeard	CRAC2	2-5	---	---	---	---	2-5
yarrow	ACHIL	---	---	X	---	---	---
Utah serviceberry	AMUT	---	---	---	---	1-5	---
Woods rose	ROWO	---	---	X	---	---	---
antelope bitterbrush	PUTR2	5-10	---	---	2-8	1-5	5-10
big sagebrush	ARTR2	---	---	---	10-20	---	---
common chokecherry	PRVI	---	---	---	---	1-5	---
mountain big sagebrush	ARVA2	10-20	---	---	---	5-15	10-20
sagebrush	ARTEM	---	20-30	---	---	---	---
snowberry	SYMPH	---	---	---	---	2-15	---
quaking aspen	POTRT	---	---	X	---	---	---

Range site number	025XY012NV	025XY018NV	025XY064NV	025XY014NV	025XY004NV	025XY012NV
Potential production (lb/acre):						
Favorable years	1400	800	1600	1000	2800	1400
Normal years	1000	600	1300	800	1800	1000
Unfavorable years	700	400	1000	600	1200	700

1731--MCIVEY-CHEN-DONNA ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		MCIVEY	CHEN	DONNA	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	30-40	30-50	---	X	15-30	2-5	---
Indian ricegrass	ORRY	---	---	---	---	---	---	2-5
Nevada bluegrass	PONE3	2-5	---	---	X	---	2-5	---
Sandberg bluegrass	POSE	---	---	2-8	---	---	---	---
Thurber needlegrass	STTH2	---	---	15-30	---	2-5	2-8	10-20
Webber needlegrass	STWE	---	---	2-8	---	---	---	---
basin wildrye	ELCI2	2-10	---	---	---	---	5-10	---
bluebunch wheatgrass	AGSP	15-30	15-30	20-40	---	10-20	50-60	20-35
bluegrass	POA++	---	2-10	---	---	---	---	---
mountain brome	BRCA5	---	---	---	X	---	---	---
sedge	CAREX	---	---	---	X	---	---	---
slender wheatgrass	AGTR	---	---	---	X	---	---	---
arrowleaf balsamroot	BASA3	2-5	---	---	---	---	---	---
groundsel	SENEC	---	---	---	X	---	---	---
tapertip hawksbeard	CRAC2	2-5	---	---	---	---	---	---
yarrow	ACHIL	---	---	---	X	---	---	---
Woods rose	ROWO	---	---	---	X	---	---	---
antelope bitterbrush	PUTR2	5-10	2-5	---	---	20-40	2-10	---
black sagebrush	ARARN	---	---	---	---	---	---	25-35
low sagebrush	ARAR8	---	15-25	---	---	---	---	---
mountain big sagebrush	ARVA2	10-20	---	---	---	5-10	5-15	---
sagebrush	ARTEM	---	---	20-30	---	---	---	---
quaking aspen	POTRT	---	---	---	X	---	---	---

Range site number	025XY012NV	025XY017NV	025XY018NV	025XY064NV	025XY007NV	025XY009NV	024XY031NV
Potential production (lb/acre):							
Favorable years	1400	900	800	1600	2300	1300	700
Normal years	1000	700	600	1300	1400	900	500
Unfavorable years	700	400	400	1000	900	700	300

1732--MCIVEY-STAMPEDE-HEECHEE ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		MCIVEY	STAMPEDE	HEECHEE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	30-40	---	15-30	15-30	30-40	---	---
Nevada bluegrass	PONE3	2-5	---	---	---	2-5	5-10	---
Thurber needlegrass	STTH2	---	10-20	2-5	2-5	---	---	10-20
basin wildrye	ELCI2	2-10	2-8	---	---	2-10	60-70	2-8
bluebunch wheatgrass	AGSP	15-30	20-35	10-20	10-20	15-30	---	20-35
bluegrass	POA++	---	2-10	---	---	---	---	2-10
mat muhly	MURI	---	---	---	---	---	2-8	---
streambank wheatgrass	AGDAR	---	---	---	---	---	2-8	---
arrowleaf balsamroot	BASA3	2-5	---	---	---	2-5	---	---
tapertip hawksbeard	CRAC2	2-5	---	---	---	2-5	---	---
antelope bitterbrush	PATR2	5-10	2-8	20-40	20-40	5-10	---	2-8
basin big sagebrush	ARTR2	---	---	---	---	---	5-10	---
big sagebrush	ARTR2	---	10-20	---	---	---	---	10-20
mountain big sagebrush	ARVA2	10-20	---	5-10	5-10	10-20	---	---
Range site number		025XY012NV	025XY014NV	025XY007NV	025XY007NV	025XY012NV	025XY003NV	025XY014NV
Potential production (lb/acre):								
Favorable years		1400	1000	2300	2300	1400	4500	1000
Normal years		1000	800	1400	1400	1000	3500	800
Unfavorable years		700	600	900	900	700	2000	600

1740--SLIPBACK-WELCH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SLIPBACK	WELCH	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Indian ricegrass	ORHY	2-10	---	---	---	---	2-10
alkali sacaton	SPAI	---	20-30	5-15	15-40	20-30	---
basin wildrye	ELCI2	10-20	2-5	2-8	40-60	2-5	10-20
bluegrass	POA++	---	---	25-50	---	---	---
inland saltgrass	DISPS2	---	---	---	2-5	---	---
mat muhly	MURI	---	30-40	30-40	---	30-40	---
rush	JunCU	---	5-10	---	---	5-10	---
western wheatgrass	AGSM	---	---	2-8	2-5	---	---
aster	ASTER	---	2-5	---	---	2-5	---
Douglas rabbitbrush	CHVI8	---	1-5	---	---	1-5	---
basin big sagebrush	ARTRT	---	2-5	---	---	2-5	---
big sagebrush	ARTR2	20-30	---	---	---	---	20-30
black greasewood	SAVE4	30-40	1-5	---	5-15	1-5	30-40
rubber rabbitbrush	CHNA2	2-5	5-10	---	2-5	5-10	2-5
Range site number		028BY028NV	028BY031NV	028BY100NV	028BY004NV	028BY031NV	028BY028NV
Potential production (lb/acre):							
Favorable years		800	1200	1500	2200	1200	800
Normal years		600	1000	1100	1500	1000	600
Unfavorable years		400	400	700	800	400	400

1741--SLIPBACK-SHANTOWN-TOBA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SLIPBACK	SHANTOWN	TOBA	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	2-10	2-5	---	---	2-10	---
Thurber needlegrass	STTH2	---	30-40	---	---	---	---
alkali sacaton	SPAI	---	---	20-30	5-15	---	15-40
basin wildrye	ELCI2	10-20	---	2-5	2-8	10-20	40-60
bluebunch wheatgrass	AGSP	---	15-30	---	---	---	---
bluegrass	POA++	---	2-8	---	25-50	---	---
inland saltgrass	DISPS2	---	---	---	---	---	2-5
mat muhly	MURI	---	---	30-40	30-40	---	---
needleandthread	STCO4	---	2-8	---	---	---	---
rush	JunCU	---	---	5-10	---	---	---
western wheatgrass	AGSM	---	---	---	2-8	---	2-5
arrowleaf balsamroot	BASA3	---	2-5	---	---	---	---
aster	ASTER	---	---	2-5	---	---	---
tapertip hawksbeard	CRAC2	---	2-5	---	---	---	---
Douglas rabbitbrush	CHVI8	---	---	1-5	---	---	---
antelope bitterbrush	PUTR2	---	2-10	---	---	---	---
basin big sagebrush	ARTRT	---	---	2-5	---	---	---
big sagebrush	ARTR2	20-30	15-25	---	---	20-30	---
black greasewood	SAVE4	30-40	---	1-5	---	30-40	5-15
rubber rabbitbrush	CHNA2	2-5	---	5-10	---	2-5	2-5

Range site number	028BY028NV	028BY007NV	028BY031NV	028BY100NV	028BY028NV	028BY004NV
Potential production (lb/acre):						
Favorable years	800	1000	1200	1500	800	2200
Normal years	600	800	1000	1100	600	1500
Unfavorable years	400	600	400	700	400	800

1750--HEECHEE-WELCH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		HEECHEE	WELCH	WELCH	Inclusion 1	Inclusion 2	Inclusion 3
Idaho fescue	FEID	30-40	---	---	30-40	---	---
Nevada bluegrass	PONE3	2-5	---	5-10	2-5	---	---
alkali sacaton	SPAI	---	5-15	---	---	5-15	---
basin wildrye	ELCI2	2-10	2-8	60-70	2-10	2-8	2-5
bluebunch wheatgrass	AGSP	15-30	---	---	15-30	---	---
bluegrass	POA++	---	25-50	---	---	25-50	25-40
mat muhly	MURI	---	30-40	2-8	---	30-40	2-5
rush	JunCU	---	---	---	---	---	5-15
sedge	CAREX	---	---	---	---	---	20-30
streambank wheatgrass	AGDAR	---	---	2-8	---	---	---
western wheatgrass	AGSM	---	2-8	---	---	2-8	---
arrowleaf balsamroot	BASA3	2-5	---	---	2-5	---	---
cinquefoil	POTEN	---	---	---	---	---	2-5
groundsel	SENEC	---	---	---	---	---	2-5
tapertip hawkbeard	CRAC2	2-5	---	---	2-5	---	---
antelope bitterbrush	PUTR2	5-10	---	---	5-10	---	---
basin big sagebrush	ARTRT	---	---	5-10	---	---	---
mountain big sagebrush	ARVA2	10-20	---	---	10-20	---	---
Range site number		025XY012NV	028BY100NV	025XY003NV	025XY012NV	028BY100NV	028BY001NV
Potential production (lb/acre):							
Favorable years		1400	1500	4500	1400	1500	4000
Normal years		1000	1100	3500	1000	1100	2000
Unfavorable years		700	700	2000	700	700	1200

1760--LYKAL-WENDANE-JAMES CANYON ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		LYKAL	WENDANE	JAMES CANYON	Inclusion 1	Inclusion 2
Baltic rush	JUBA	---	2-8	---	---	---
Letterman needlegrass	STLE4	X	---	---	---	---
alkali cordgrass	SPGR	---	10-15	---	---	---
alkali sacaton	SPAI	---	40-50	5-15	5-15	15-40
alkaligrass	PUCCI	---	2-5	---	---	---
basin wildrye	ELCI2	---	---	2-8	2-8	40-60
bluebunch wheatgrass	AGSP	X	---	---	---	---
bluegrass	POA++	---	2-8	25-50	25-50	---
inland saltgrass	DISPS2	---	2-5	---	---	2-5
mat muhly	MURI	---	---	30-40	30-40	---
muttongrass	POFE	X	---	---	---	---
sedge	CAREX	X	5-10	---	---	---
spike-fescue	LEKI2	X	---	---	---	---
western wheatgrass	AGSM	---	---	2-8	2-8	2-5
creeping barberry	BERE	X	---	---	---	---
goldenweed	HAPLO2	X	---	---	---	---
black greasewood	SAVE4	---	---	---	---	5-15
common juniper	JUCO6	X	---	---	---	---
mountain big sagebrush	ARVA2	X	---	---	---	---
rubber rabbitbrush	CHNA2	---	---	---	---	2-5
serviceberry	AMELA	X	---	---	---	---
bristlecone pine	PIAR	X	---	---	---	---
limber pine	PIPL2	X	---	---	---	---
white fir	ABCO	X	---	---	---	---
Range site number		028BY063NV	028BY002NV	028BY100NV	028BY100NV	028BY004NV
Potential production (lb/acre):						
Favorable years		800	1500	1500	1500	2200
Normal years		500	1000	1100	1100	1500
Unfavorable years		300	700	700	700	800

1770--DONNA-MCIVEY-HEECHEE ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		DONNA	MCIVEY	HEECHEE	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	---	30-40	15-30	30-50	---	---	X
Nevada bluegrass	PONE3	---	2-5	---	---	40-60	5-10	X
Sandberg bluegrass	POSE	2-8	---	---	---	---	---	---
Thurber needlegrass	STH2	15-30	---	2-5	---	---	---	---
Webber needlegrass	STWE	2-8	---	---	---	---	---	---
alpine timothy	PHAL2	---	---	---	---	20-40	---	---
basin wildrye	ELCI2	---	2-10	---	---	2-8	60-70	---
bluebunch wheatgrass	AGSP	20-40	15-30	10-20	15-30	---	---	---
bluegrass	POA++	---	---	---	2-10	---	---	---
mat muhly	MURI	---	---	---	---	2-8	2-8	---
meadow barley	HOB2	---	---	---	---	2-5	---	---
mountain brome	BRCA5	---	---	---	---	---	---	X
sedge	CAREX	---	---	---	---	2-8	---	X
slender wheatgrass	AGTR	---	---	---	---	---	---	X
streambank wheatgrass	AGDAR	---	---	---	---	---	2-8	---
arrowleaf balsamroot	BASA3	---	2-5	---	---	---	---	---
groundsel	SENEC	---	---	---	---	---	---	X
tapertip hawksbeard	CRAC2	---	2-5	---	---	---	---	---
yarrow	ACHIL	---	---	---	---	---	---	X
Woods rose	ROWO	---	---	---	---	---	---	X
antelope bitterbrush	PATR2	---	5-10	20-40	2-5	---	---	---
basin big sagebrush	ARTRT	---	---	---	---	---	5-10	---
low sagebrush	ARAR8	---	---	---	15-25	---	---	---
mountain big sagebrush	ARVA2	---	10-20	5-10	---	---	---	---
sagebrush	ARTEM	20-30	---	---	---	---	---	---
quaking aspen	POTRT	---	---	---	---	---	---	X

Range site number	025XY018NV	025XY012NV	025XY007NV	025XY017NV	025XY006NV	025XY003NV	025XY064NV
Potential production (lb/acre):							
Favorable years	800	1400	2300	900	2000	4500	1600
Normal years	600	1000	1400	700	1300	3500	1300
Unfavorable years	400	700	900	400	800	2000	1000

1780--SCHOER-WELCH ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		SCHOER	WELCH	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	---	---	---	15-30	---	---
Nevada bluegrass	PONE3	---	---	---	---	5-10	---
Sandberg bluegrass	POSE	---	---	2-8	---	---	---
Thurber needlegrass	STTH2	10-20	---	15-30	2-5	---	10-20
Webber needlegrass	STWE	---	---	2-8	---	---	---
alkali sacaton	SPAI	---	5-15	---	---	---	---
alpine timothy	PHAL2	---	---	---	---	5-10	---
basin wildrye	ELCI2	2-8	2-8	---	---	---	2-8
bluebunch wheatgrass	AGSP	20-35	---	20-40	10-20	---	20-35
bluegrass	POA++	2-10	25-50	---	---	---	2-10
mat muhly	MURI	---	30-40	---	---	---	---
sedge	CAREX	---	---	---	---	5-10	---
tufted hairgrass	DecE	---	---	---	---	30-60	---
western wheatgrass	AGSM	---	2-8	---	---	---	---
Sierra clover	TRWO	---	---	---	---	2-5	---
cinquefoil	POTEN	---	---	---	---	2-5	---
antelope bitterbrush	PUTR2	2-8	---	---	20-40	---	2-8
big sagebrush	ARTR2	10-20	---	---	---	---	10-20
mountain big sagebrush	ARVA2	---	---	---	5-10	---	---
sagebrush	ARTEM	---	---	20-30	---	---	---
Range site number		025XY014NV	028BY100NV	025XY018NV	025XY007NV	025XY005NV	025XY014NV
Potential production (lb/acre):							
Favorable years		1000	1500	800	2300	3000	1000
Normal years		800	1100	600	1400	1700	800
Unfavorable years		600	700	400	900	1000	600

1790--DONNA-KRENKA-MCIVEY ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		DONNA	KRENKA	MCIVEY	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	2-5	---	---	---	---	---
Idaho fescue	FEID	---	2-10	5-15	30-40	X	2-5	---
Nevada bluegrass	PONE3	---	2-5	---	2-5	X	2-5	40-60
Sandberg bluegrass	POSE	2-8	---	---	---	---	---	---
Thurber needlegrass	STTH2	15-30	---	---	---	---	2-8	---
Webber needlegrass	STWE	2-8	---	---	---	---	---	---
alpine timothy	PHAL2	---	---	---	---	---	---	20-40
basin wildrye	ELCI2	---	---	---	2-10	---	5-10	2-8
bluebunch wheatgrass	AGSP	20-40	2-5	2-10	15-30	---	50-60	---
mat muhly	MURI	---	---	---	---	---	---	2-8
meadow barley	HOBR2	---	---	---	---	---	---	2-5
mountain brome	BRCA5	---	5-15	---	---	X	---	---
sedge	CAREX	---	---	---	---	X	---	2-8
slender wheatgrass	AGTR	---	5-15	---	---	X	---	---
spike-fescue	LEKI2	---	2-10	---	---	---	---	---
arrowleaf balsamroot	BASA3	---	---	---	2-5	---	---	---
groundsel	SENEC	---	---	---	---	X	---	---
tapertip hawkbeard	CRAC2	---	---	---	2-5	---	---	---
yarrow	ACHIL	---	---	---	---	X	---	---
Utah serviceberry	AMUT	---	1-5	---	---	---	---	---
Woods rose	ROWO	---	---	---	---	X	---	---
antelope bitterbrush	PUTR2	---	1-5	2-8	5-10	---	2-10	---
common chokecherry	PRVI	---	1-5	---	---	---	---	---
mountain big sagebrush	ARVA2	---	5-15	2-5	10-20	---	5-15	---
sagebrush	ARTEM	20-30	---	---	---	---	---	---
serviceberry	AMELA	---	---	40-50	---	---	---	---
snowberry	SYMPH	---	2-15	2-8	---	---	---	---
quaking aspen	POTRT	---	---	---	---	X	---	---

Range site number	025XY018NV	025XY004NV	025XY046NV	025XY012NV	025XY064NV	025XY009NV	025XY006NV
Potential production (lb/acre):							
Favorable years	800	2800	1800	1400	1600	1300	2000
Normal years	600	1800	1300	1000	1300	900	1300
Unfavorable years	400	1200	900	700	1000	700	800

1800--CHEN-GRALEY-ROCK OUTCROP ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		CHEN	GRALEY	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Idaho fescue	FEID	30-50	30-40	---	---	5-30	2-5	---
Indian ricegrass	ORBY	---	---	---	5-15	---	---	---
Nevada bluegrass	PONE3	---	2-5	---	---	---	2-5	5-15
Thurber needlegrass	STH2	---	---	---	15-30	---	2-8	---
basin wildrye	ELCI2	---	2-10	---	---	---	5-10	---
bluebunch wheatgrass	AGSP	15-30	15-30	---	---	---	50-60	---
bluegrass	POA++	2-10	---	---	---	5-15	---	---
inland saltgrass	DISPS2	---	---	---	---	---	---	2-5
mat muhly	MURI	---	---	---	---	---	---	2-5
sedge	CAREX	---	---	---	---	---	---	2-10
wildrye	ELYMU	---	---	---	---	---	---	60-80
arrowleaf balsamroot	BASA3	---	2-5	---	---	---	---	---
globemallow	SPHAE	---	---	---	2-5	---	---	---
goldenweed	HAPLO2	---	---	---	---	2-5	---	---
tapertip hawksbeard	CRAC2	---	2-5	---	---	---	---	---
antelope bitterbrush	PUTR2	2-5	5-10	---	---	---	2-10	---
black sagebrush	ARARN	---	---	---	25-35	---	---	---
low sagebrush	ARAR8	15-25	---	---	---	---	---	---
mountain big sagebrush	ARVA2	---	10-20	---	---	---	5-15	---
sagebrush	ARTEM	---	---	---	---	30-35	---	---
willow	SALIX	---	---	---	---	---	---	5-10
Range site number		025XY017NV	025XY012NV	None	024XY030NV	025XY024NV	025XY009NV	025XY001NV
Potential production (lb/acre):								
Favorable years		900	1400		500	400	1300	3500
Normal years		700	1000		350	275	900	2500
Unfavorable years		400	700		250	150	700	1800

1810--SUMINE-TUSEL-HAPGOOD ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		SUMINE	TUSEL	HAPGOOD	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	2-5	---	---	---	---
Cusick bluegrass	POCU3	---	5-10	---	---	---	---	---
Idaho fescue	FEID	2-5	50-65	2-10	5-30	30-50	---	2-10
Letterman needlegrass	STLE4	---	---	---	---	---	---	2-5
Nevada bluegrass	PONE3	2-5	---	2-5	---	---	5-10	2-5
Thurber needlegrass	STTH2	2-8	---	---	---	---	---	---
alpine timothy	PHAL2	---	---	---	---	---	5-10	---
basin wildrye	ELCI2	5-10	---	---	---	---	---	5-15
bluebunch wheatgrass	AGSP	50-60	2-5	2-5	---	15-30	---	30-50
bluegrass	POA++	---	---	---	5-15	2-10	---	---
mountain brome	BRCA5	---	---	5-15	---	---	---	20-40
sedge	CAREX	---	---	---	---	---	5-10	---
slender wheatgrass	AGTR	---	---	5-15	---	---	---	---
spike-fescue	LEKI2	---	---	2-10	---	---	---	2-5
tufted hairgrass	DecE	---	---	---	---	---	30-60	---
Sierra clover	TRWO	---	---	---	---	---	2-5	---
cinquefoil	POTEN	---	---	---	---	---	2-5	---
goldenweed	HAPLO2	---	---	---	2-5	---	---	---
Utah serviceberry	AMUT	---	---	1-5	---	---	---	---
antelope bitterbrush	PUTR2	2-10	---	1-5	---	2-5	---	5-10
common chokecherry	PRVI	---	---	1-5	---	---	---	---
low sagebrush	ARAR8	---	---	---	---	15-25	---	---
mountain big sagebrush	ARVA2	5-15	2-8	5-15	---	---	---	5-15
sagebrush	ARTEM	---	---	---	30-35	---	---	---
snowberry	SYMPE	---	---	2-15	---	---	---	---

Range site number	025XY009NV	025XY010NV	025XY004NV	025XY024NV	025XY017NV	025XY005NV	025XY016NV
Potential production (lb/acre):							
Favorable years	1300	1200	2800	400	900	3000	2000
Normal years	900	800	1800	275	700	1700	1400
Unfavorable years	700	600	1200	150	400	1000	1000

1820--HUSSA-HALLECK-WELSUM ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		HUSSA	HALLECK	WELSUM	Inclusion 1	Inclusion 2	Inclusion 3
Nevada bluegrass	PONE3	5-10	5-10	5-10	---	---	---
Thurber needlegrass	STH2	---	---	---	10-20	---	---
alkali sacaton	SPAI	---	---	---	---	5-25	---
alpine timothy	PHAL2	5-10	5-10	5-10	---	---	---
basin wildrye	ELCI2	---	---	---	2-8	50-60	---
bluebunch wheatgrass	AGSP	---	---	---	20-35	---	---
bluegrass	POA++	---	---	---	2-10	---	X
rush	JunCU	---	---	---	---	---	X
sedge	CAREX	5-10	5-10	5-10	---	---	X
streambank wheatgrass	AGDAR	---	---	---	---	---	X
tufted hairgrass	DecE	30-60	30-60	30-60	---	---	---
western wheatgrass	AGSM	---	---	---	---	---	X
Sierra clover	TRWO	2-5	2-5	2-5	---	---	---
cinquefoil	POTEN	2-5	2-5	2-5	---	---	---
clover	TRIPO	---	---	---	---	---	X
yarrow	ACHIL	---	---	---	---	---	X
Woods rose	ROWO	---	---	---	---	---	X
antelope bitterbrush	PTR2	---	---	---	2-8	---	---
big sagebrush	ARTR2	---	---	---	10-20	---	---
black greasewood	SAVE4	---	---	---	---	5-15	---
currant	RIBES	---	---	---	---	---	X
rubber rabbitbrush	CHNA2	---	---	---	---	2-5	---
narrowleaf cottonwood	POAN3	---	---	---	---	---	X
willow	SALIX	---	---	---	---	---	X

Range site number	025XY005NV	025XY005NV	025XY005NV	025XY014NV	024XY007NV	025XY053NV
Potential production (lb/acre):						
Favorable years	3000	3000	3000	1000	1900	2500
Normal years	1700	1700	1700	800	1400	2000
Unfavorable years	1000	1000	1000	600	800	1000

1831--ENKO-KELK ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		ENKO	KELK	ENKO	Inclusion 1	Inclusion 2	Inclusion 3
Indian ricegrass	ORHY	---	---	---	15-30	---	---
Sandberg bluegrass	POSE	2-5	2-5	2-5	---	2-5	2-5
Thurber needlegrass	STH2	15-25	15-25	15-25	---	15-25	15-25
basin wildrye	ELCI2	---	---	---	2-8	---	---
bluebunch wheatgrass	AGSP	25-40	25-40	25-40	---	25-40	25-40
bottlebrush squirreltail	SIHY	---	---	---	5-10	---	---
Wyoming big sagebrush	ARTRW	15-25	15-25	15-25	15-30	15-25	15-25
antelope bitterbrush	PUTR2	---	---	---	2-8	---	---
black sagebrush	ARARN	---	---	---	10-20	---	---
spiny hopsage	GRSP	---	---	---	2-5	---	---
Range site number		025XY019NV	025XY019NV	025XY019NV	025XY025NV	025XY019NV	025XY019NV
Potential production (lb/acre):							
Favorable years		800	800	800	500	800	800
Normal years		600	600	600	350	600	600
Unfavorable years		400	400	400	200	400	400

1840--AMENE-BELSAC-CHEN ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		AMENE	BELSAC	CHEN	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	2-5	---	---	---	---	---
Idaho fescue	FEID	5-15	2-10	30-50	---	5-30	---	X
Nevada bluegrass	PONE3	---	2-5	---	---	---	5-10	X
alpine timothy	PHAL2	---	---	---	---	---	5-10	---
bluebunch wheatgrass	AGSP	2-10	2-5	15-30	20-30	---	---	---
bluegrass	POA++	---	---	2-10	---	5-15	---	---
mountain brome	BRCA5	---	5-15	---	---	---	---	X
muttongrass	POFE	---	---	---	2-8	---	---	---
needlegrass	STIPA	---	---	---	5-15	---	---	---
sedge	CAREX	---	---	---	---	---	5-10	X
slender wheatgrass	AGTR	---	5-15	---	---	---	---	X
spike-fescue	LEKI2	---	2-10	---	---	---	---	---
tufted hairgrass	DecE	---	---	---	---	---	30-60	---
Sierra clover	TRWO	---	---	---	---	---	2-5	---
cinquefoil	POTEN	---	---	---	---	---	2-5	---
goldenweed	HAPLO2	---	---	---	---	2-5	---	---
groundsel	SENEC	---	---	---	---	---	---	X
yarrow	ACHIL	---	---	---	---	---	---	X
Utah serviceberry	AMUT	---	1-5	---	---	---	---	---
Woods rose	ROWO	---	---	---	---	---	---	X
antelope bitterbrush	PUTR2	2-8	1-5	2-5	---	---	---	---
common chokecherry	PRVI	---	1-5	---	---	---	---	---
low sagebrush	ARAR8	---	---	15-25	---	---	---	---
mountain big sagebrush	ARVA2	2-5	5-15	---	15-25	---	---	---
sagebrush	ARTEM	---	---	---	---	30-35	---	---
serviceberry	AMELA	40-50	---	---	---	---	---	---
snowberry	SYMPH	2-8	2-15	---	2-8	---	---	---
curlleaf mountainmahogany	CELE3	---	---	---	15-25	---	---	---
quaking aspen	POTRT	---	---	---	---	---	---	X

Range site number	025XY046NV	025XY004NV	025XY017NV	028BY043NV	025XY024NV	025XY005NV	025XY064NV
Potential production (lb/acre):							
Favorable years	1800	2800	900	1700	400	3000	1600
Normal years	1300	1800	700	1300	275	1700	1300
Unfavorable years	900	1200	400	900	150	1000	1000

1850--BULLUMP-CLEAVAGE-ROCK OUTCROP ASSOCIATION

(An X indicates that the named plant is in the potential native woodland understory and the percentage is highly variable. Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions						
		Soil name or Inclusion number--						
		BULLUMP	CLEAVAGE	ROCK OUTCROP	Inclusion 1	Inclusion 2	Inclusion 3	Inclusion 4
Columbia needlegrass	STNE3	---	---	---	---	2-5	---	---
Idaho fescue	FEID	2-10	5-30	---	X	2-10	2-5	15-25
Letterman needlegrass	STLE4	2-5	---	---	---	---	---	---
Nevada bluegrass	PONE3	2-5	---	---	---	2-5	2-5	---
Thurber needlegrass	STTH2	---	---	---	---	---	2-8	---
basin wildrye	ELCI2	5-15	---	---	---	---	5-10	---
bluebunch wheatgrass	AGSP	30-50	---	---	---	2-5	50-60	5-15
bluegrass	POA++	---	5-15	---	---	---	---	2-5
horsemint giant hyssop	AGUR	---	---	---	X	---	---	---
mountain brome	BRCA5	20-40	---	---	X	5-15	---	---
needlegrass	STIPA	---	---	---	---	---	---	2-8
slender wheatgrass	AGTR	---	---	---	X	5-15	---	---
spike-fescue	LEKI2	2-5	---	---	---	2-10	---	---
goldenweed	HAPLO2	---	2-5	---	---	---	---	---
groundsel	SENEC	---	---	---	X	---	---	---
Utah serviceberry	AMUT	---	---	---	X	1-5	---	---
antelope bitterbrush	PUTR2	5-10	---	---	---	1-5	2-10	2-5
common chokecherry	PRVI	---	---	---	---	1-5	---	---
mountain big sagebrush	ARVA2	5-15	---	---	---	5-15	5-15	5-15
sagebrush	ARTEM	---	30-35	---	---	---	---	---
snowberry	SYMPH	---	---	---	X	2-15	---	2-8
quaking aspen	POTRT	---	---	---	X	---	---	---
Range site number		025XY016NV	025XY024NV	None	025XY065NV	025XY004NV	025XY009NV	025XY071NV
Potential production (lb/acre):								
Favorable years		2000	400		800	2800	1300	1700
Normal years		1400	275		600	1800	900	1300
Unfavorable years		1000	150		400	1200	700	900

1861--EQUIS-DEVILSGAIT ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions				
		Soil name or Inclusion number--				
		EQUIS	DEVILSGAIT	Inclusion 1	Inclusion 2	Inclusion 3
Baltic rush	JUBA	2-5	---	---	---	---
alkali bluegrass	POJU	2-10	---	---	---	---
alkali muhly	MUAS	2-5	---	---	---	---
alkali sacaton	SPAI	2-10	---	---	15-40	---
basin wildrye	ELCI2	---	---	2-5	40-60	---
bluegrass	POA++	---	---	25-40	---	---
bulrush	SCIRP	---	30-50	---	---	---
cattail	TYPHA	---	20-40	---	---	---
giantreed	ARDO4	---	5-10	---	---	---
inland saltgrass	DISPS2	5-15	---	---	2-5	---
mat muhly	MURI	---	---	2-5	---	---
rush	JuncU	---	2-8	5-15	---	---
sedge	CAREX	10-20	2-8	20-30	---	---
western wheatgrass	AGSM	35-50	---	---	2-5	---
wildrye	ELYMU	5-15	---	---	---	---
cinquefoil	POTEN	---	---	2-5	---	---
groundsel	SENEC	---	---	2-5	---	---
black greasewood	SAVE4	---	---	---	5-15	---
rubber rabbitbrush	CHNA2	---	---	---	2-5	---
Range site number		028BY012NV	028BY044NV	028BY001NV	028BY004NV	None
Potential production (lb/acre):						
Favorable years		2000	4000	4000	2200	
Normal years		1500	2800	2000	1500	
Unfavorable years		1000	2000	1200	800	

1862--EQUIS-KOLDA ASSOCIATION

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions					
		Soil name or Inclusion number--					
		EQUIS	EQUIS	KOLDA	Inclusion 1	Inclusion 2	Inclusion 3
Baltic rush	JUBA	2-8	2-5	---	---	---	---
alkali bluegrass	POJU	---	2-10	---	---	---	---
alkali cordgrass	SPGR	10-15	---	---	---	---	---
alkali muhly	MUAS	---	2-5	---	---	---	---
alkali sacaton	SPAI	40-50	2-10	---	15-40	5-15	---
alkaligrass	PUCCI	2-5	---	---	---	---	---
basin wildrye	ELCI2	---	---	2-5	40-60	2-8	---
bluegrass	POA++	2-8	---	25-40	---	25-50	---
bulrush	SCIRP	---	---	---	---	---	30-50
cattail	TYPHA	---	---	---	---	---	20-40
giantreed	ARDO4	---	---	---	---	---	5-10
inland saltgrass	DISPS2	2-5	5-15	---	2-5	---	---
mat muhly	MURI	---	---	2-5	---	30-40	---
rush	JunCU	---	---	5-15	---	---	2-8
sedge	CAREX	5-10	10-20	20-30	---	---	2-8
western wheatgrass	AGSM	---	35-50	---	2-5	2-8	---
wildrye	ELYMU	---	5-15	---	---	---	---
cinquefoil	POTEN	---	---	2-5	---	---	---
groundsel	SENEC	---	---	2-5	---	---	---
black greasewood	SAVE4	---	---	---	5-15	---	---
rubber rabbitbrush	CHNA2	---	---	---	2-5	---	---
Range site number		028BY002NV	028BY012NV	028BY001NV	028BY004NV	028BY100NV	028BY044NV
Potential production (lb/acre):							
Favorable years		1500	2000	4000	2200	1500	4000
Normal years		1000	1500	2000	1500	1100	2800
Unfavorable years		700	1000	1200	800	700	2000

1870--DENIED ACCESS

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions
		Soil name or Inclusion number--
		DENIED ACCES

Range site number

None

Potential production (lb/acre):

Favorable years

Normal years

Unfavorable years

1880--WATER

(Absence of an entry indicates that the named plant is not a key species in the potential native plant community)

Common plant name	Plant symbol	Percentage composition and production (dry weight) of plants on major soils and inclusions
		Soil name or Inclusion number--
		WATER

Range site number None

Potential production (lb/acre):
 Favorable years
 Normal years
 Unfavorable years

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