Illustrations

Figure 1.—North Sterling Reservoir provides irrigation water and recreation

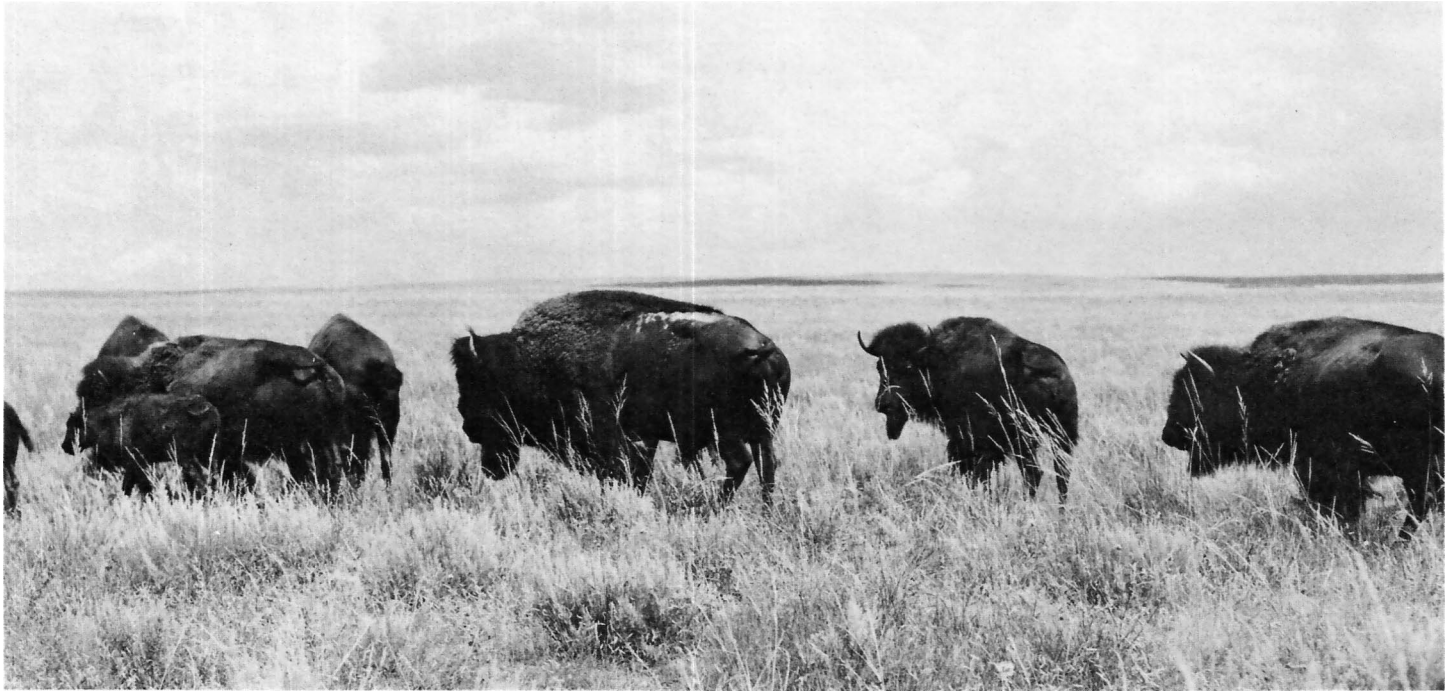

Figure 2.—Buffalo on Sand Hills range site of Valent soil. (Picture commemorates Colorado Centennial.)

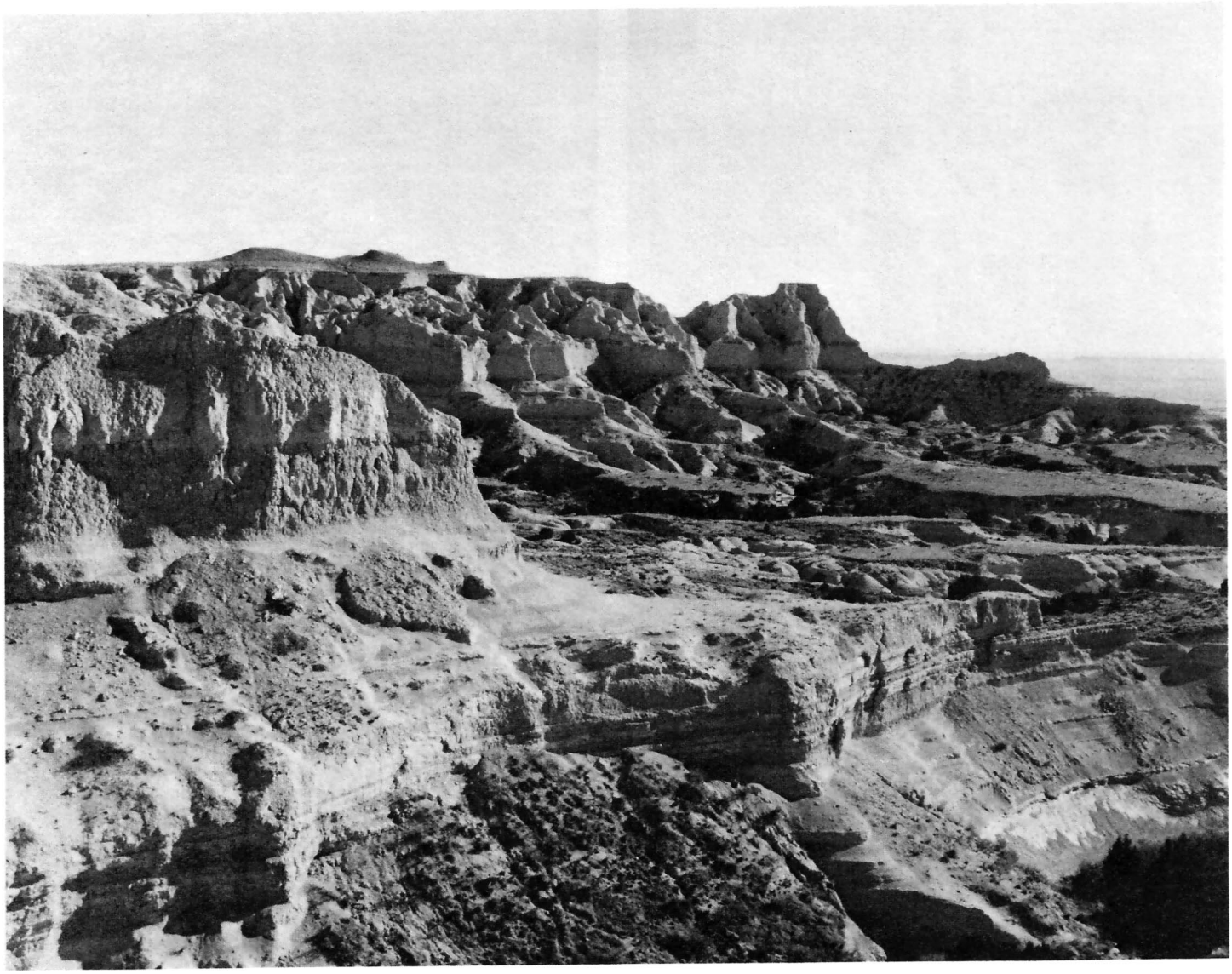

Figure 3.—Exposure of Brule Siltstone Formation in typical landscape of Ustic Torriorthents provides recreation and escape area for wildlife. The Chimney and Lewis Canyons are important local landmaks.

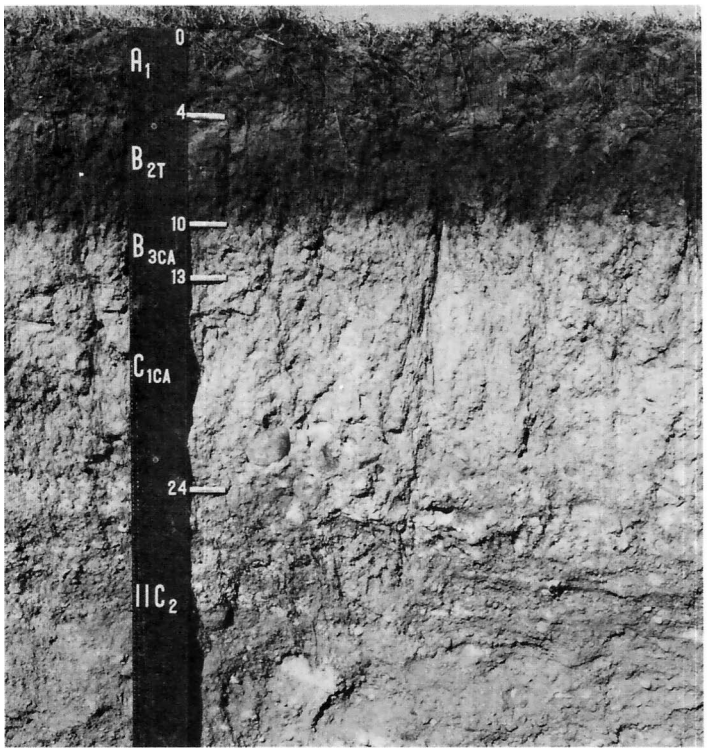

Figure 4.—Profile of Altvan sandy loam The depth to sand and gravel is 24 inches.

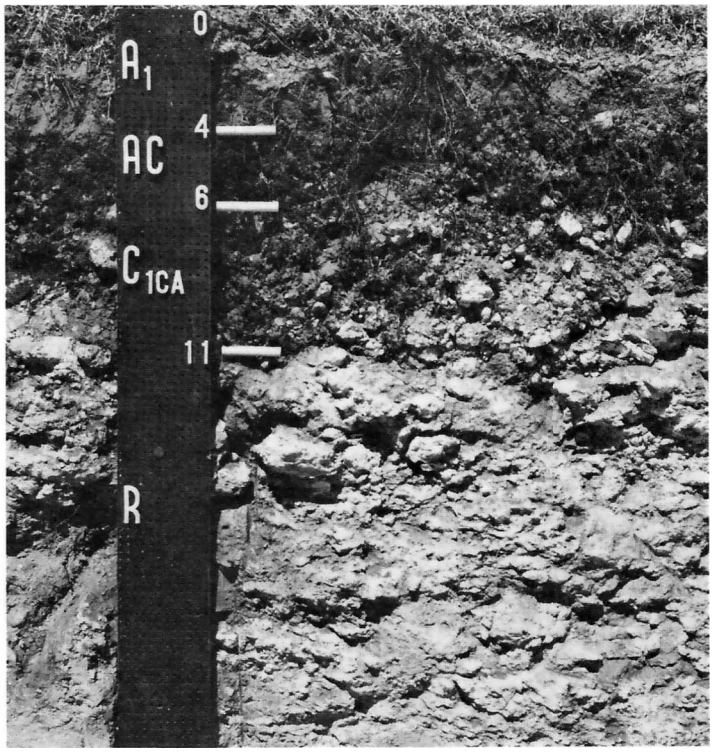

Figure 5.—Profile of Canyon gravelly loam. White indurated calcareous sandstone of the Ogallala Formation is at a depth of 11 inches.

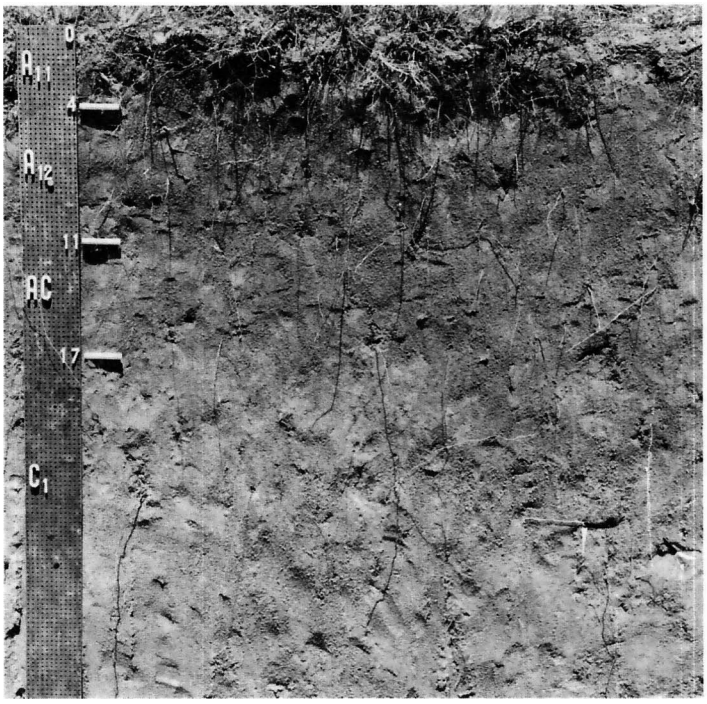

Figure 6.—Profile of Dailey loamy sand showing dark loamy sand surface layer underlain by noncalcareous eolian sand and loamy sand.

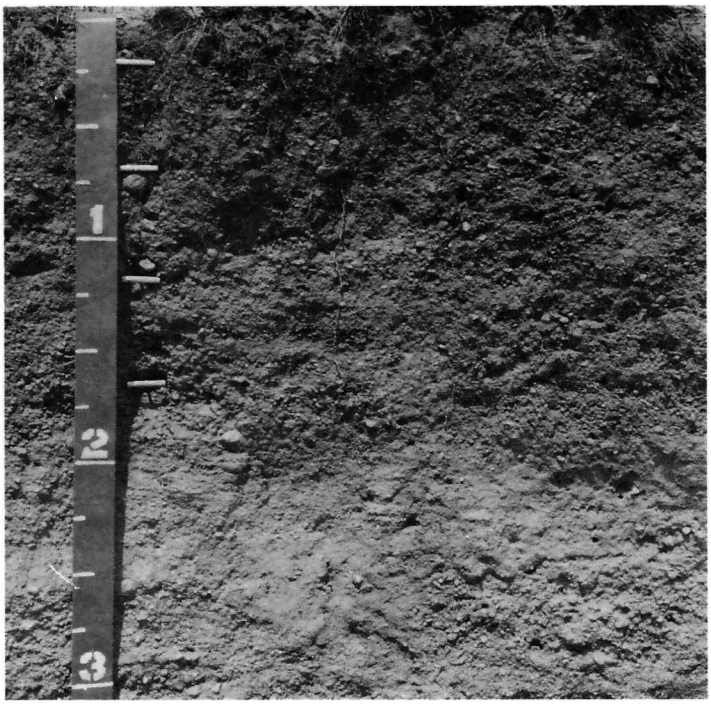

Figure 7.—Profile of Dix gravelly sandy loam. The depth to sand and gravel is 18 inches.

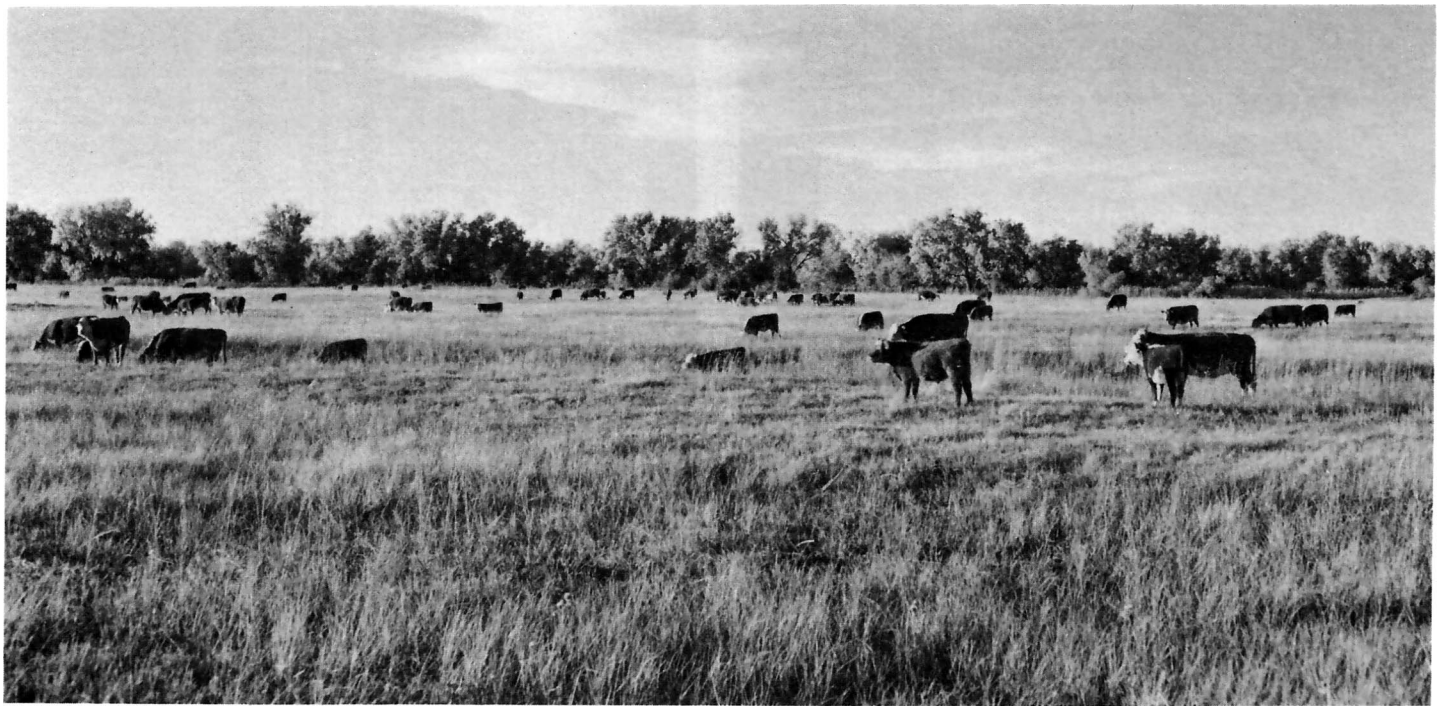

Figure 8.—Range area of Fluvaquentic Haplaquolls on bottom land along the South Platte River.

Figure 9 —Stripcropping protects against soil blowing. The soil is Haxtun loamy sand, 0 to 3 percent slopes

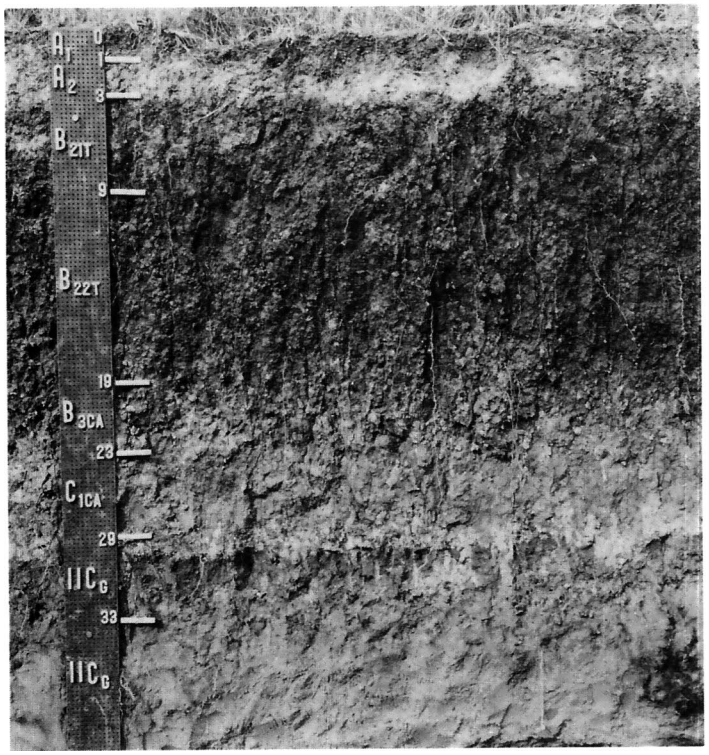

Figure 10.—Profile of Hayford silty clay loam showing the fluctuating water table. Mottled sand and gravel is at 20 to 40 inches.

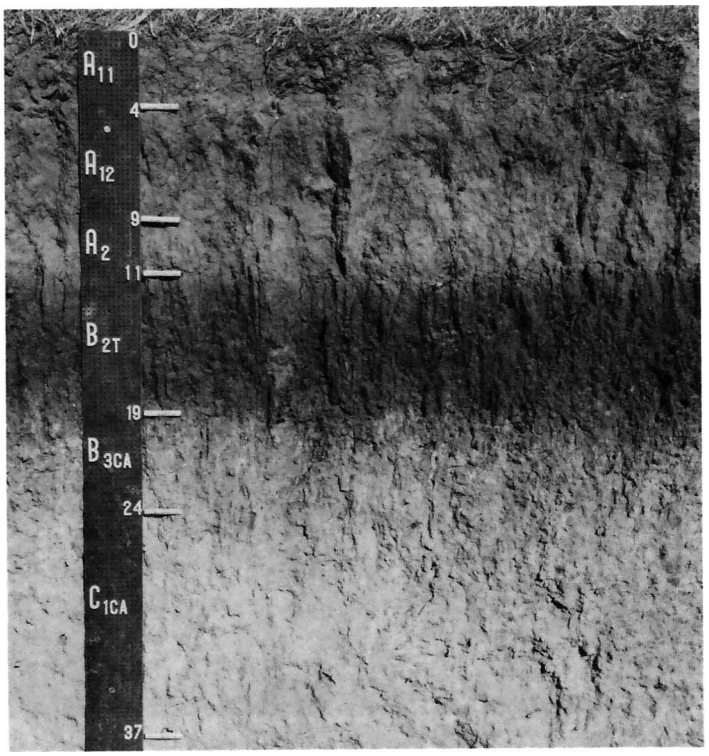

Figure 11.—Profile of Iliff loam. The 11- to 19-inch horizon is a compact clay subsoil. The substratum is calcareous loamy eolian material.

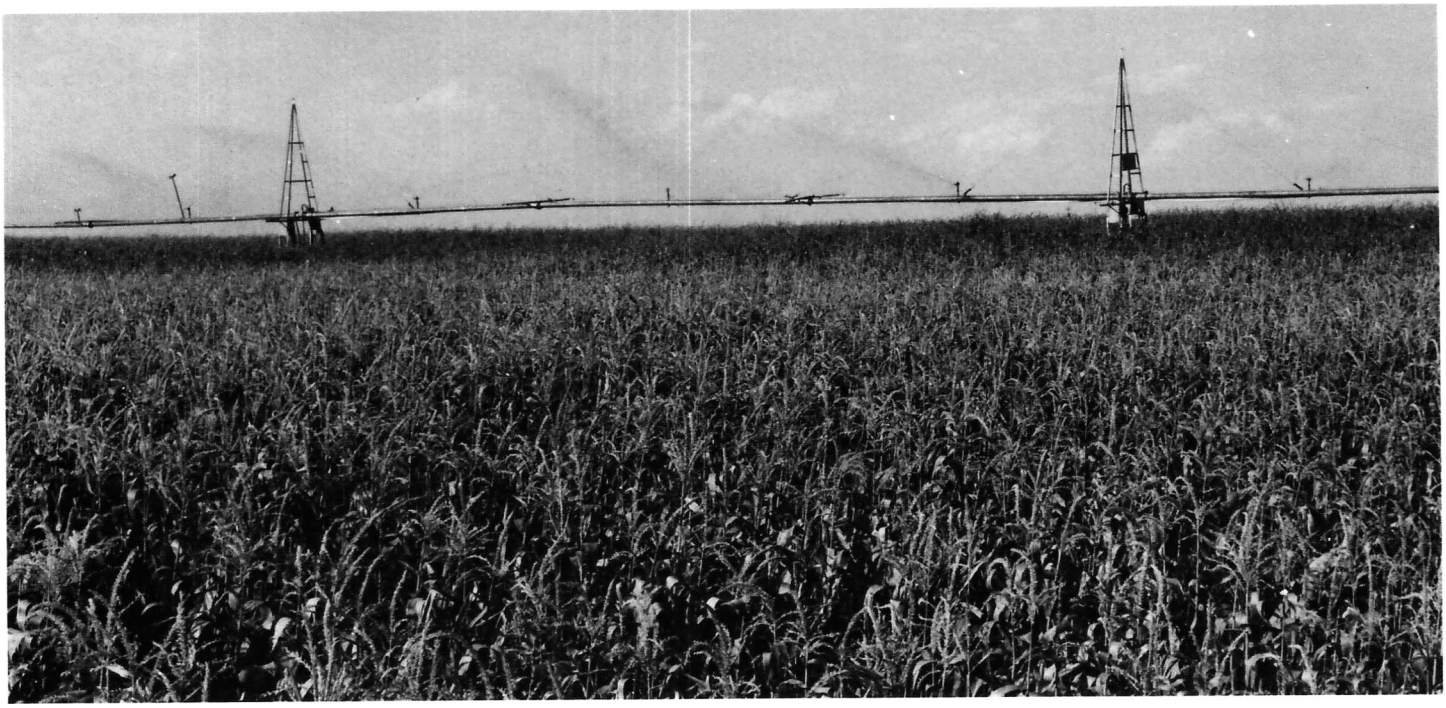

Figure 12.—Pivotal type sprinkler irrigation on corn. This type of irrigation is common on sandy loams and loamy sands

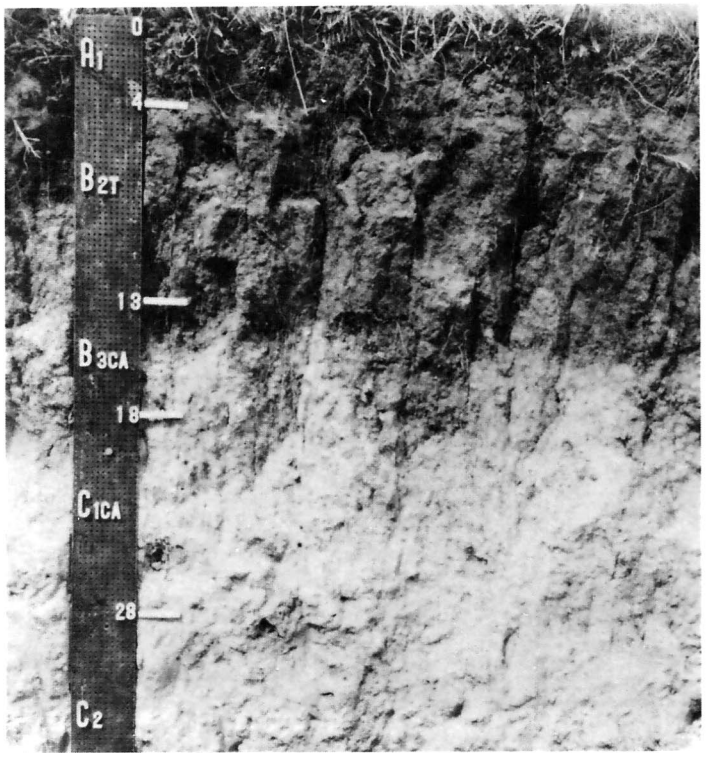

Figure 13.—Profile of Manter sandy loam showing coarse prismatic sandy loam subsoil over calcareous sandy loam eolian material

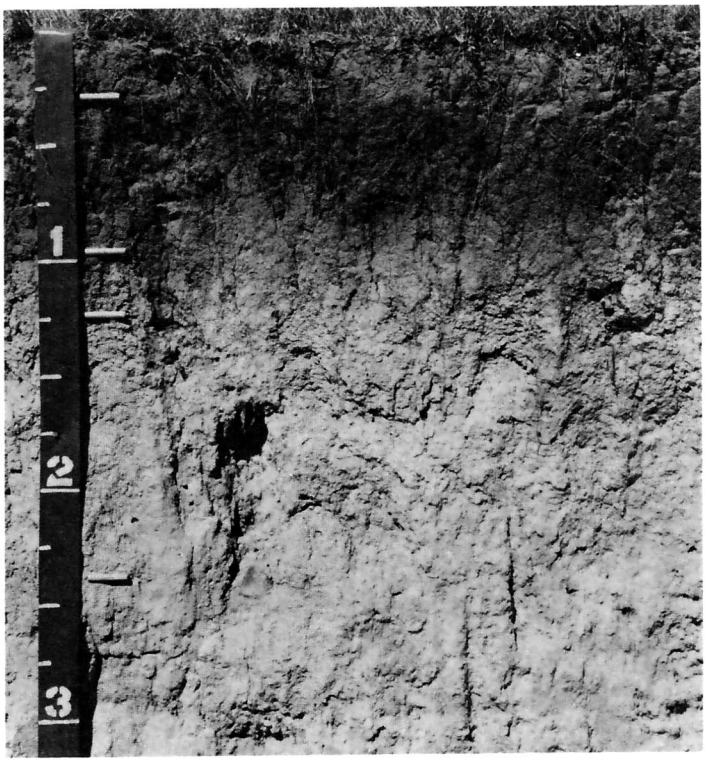

Figure 14.—Profile of Norka loam showing thin loamy surface layer and subsoil The substratum is calcareous eolian silt loam.

Figure 15.—Crop residue left on the surface by stubble mulch tillage helps prevent erosion and conserves moisture. The soil is Platner loam, 1 to 3 percent slopes.

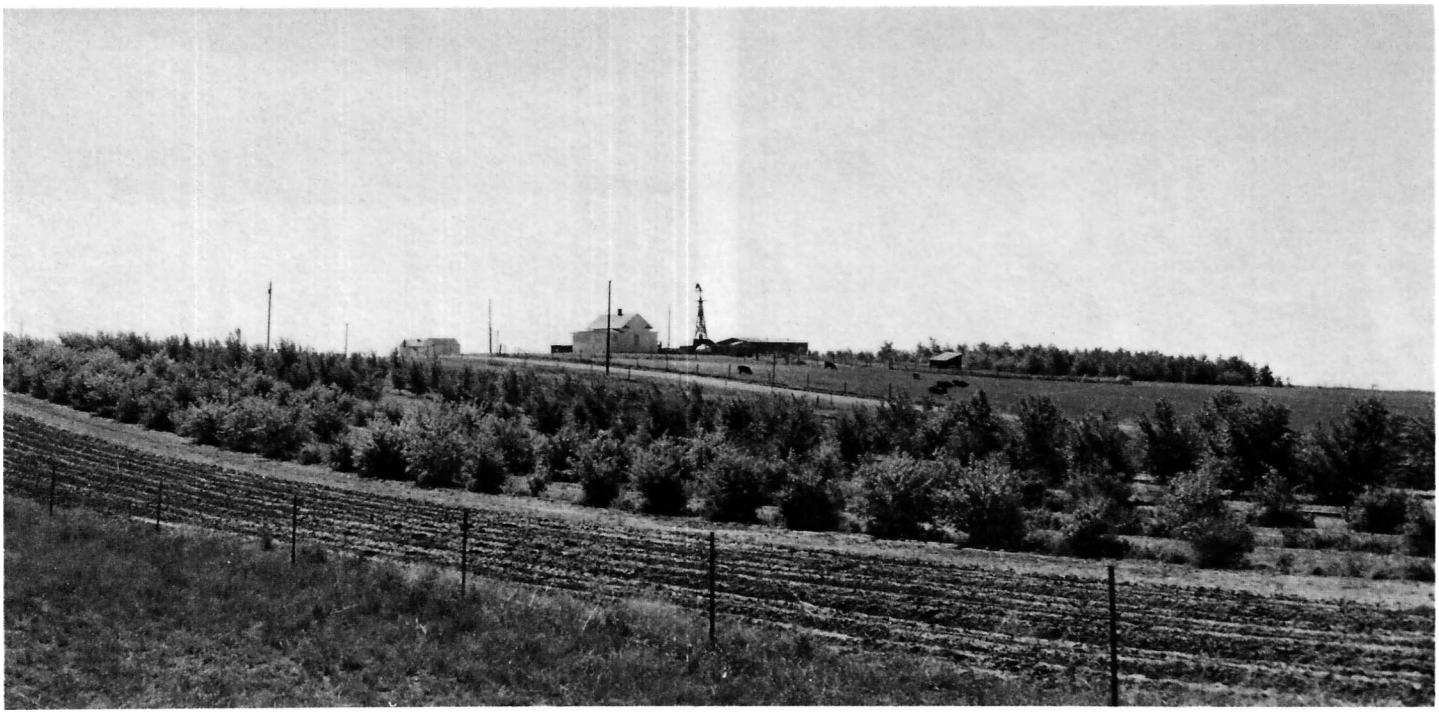

Figure 16.—Windbreak plantings on Platner loam, 0 to 3 percent slopes, in foreground and Platner loam, 3 to 5 percent slopes, in background. Fencing and cultivation are needed for establishment and survival

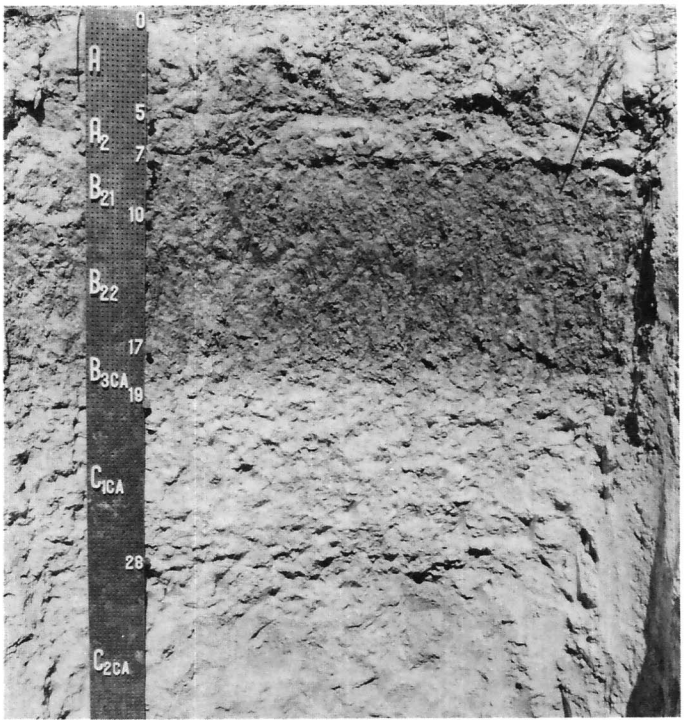

Figure 17.—Profile of Platner loam showing heavy clay loam subsoil underlain by calcareous mixed eolian and alluvial material.

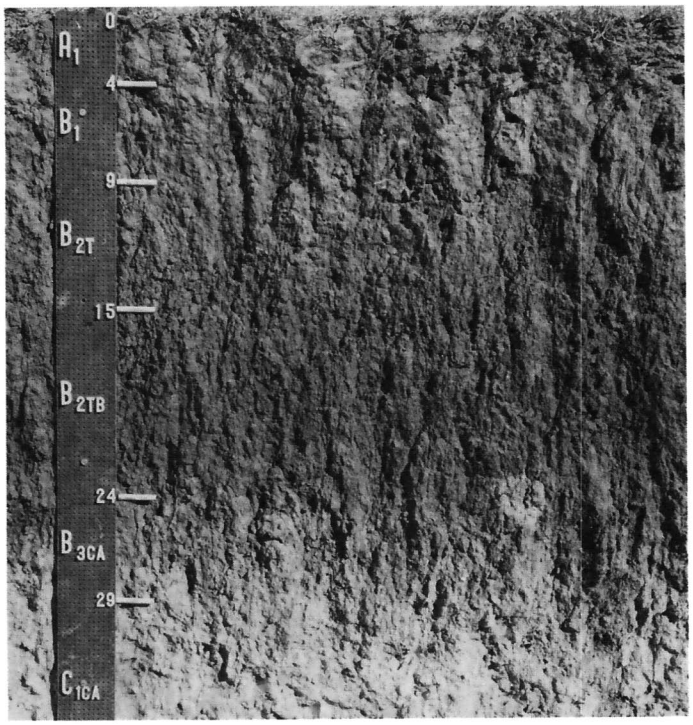

Figure 18.—Profile of Rago loam At a depth of 15 inches is a buried dark colored clay loam.

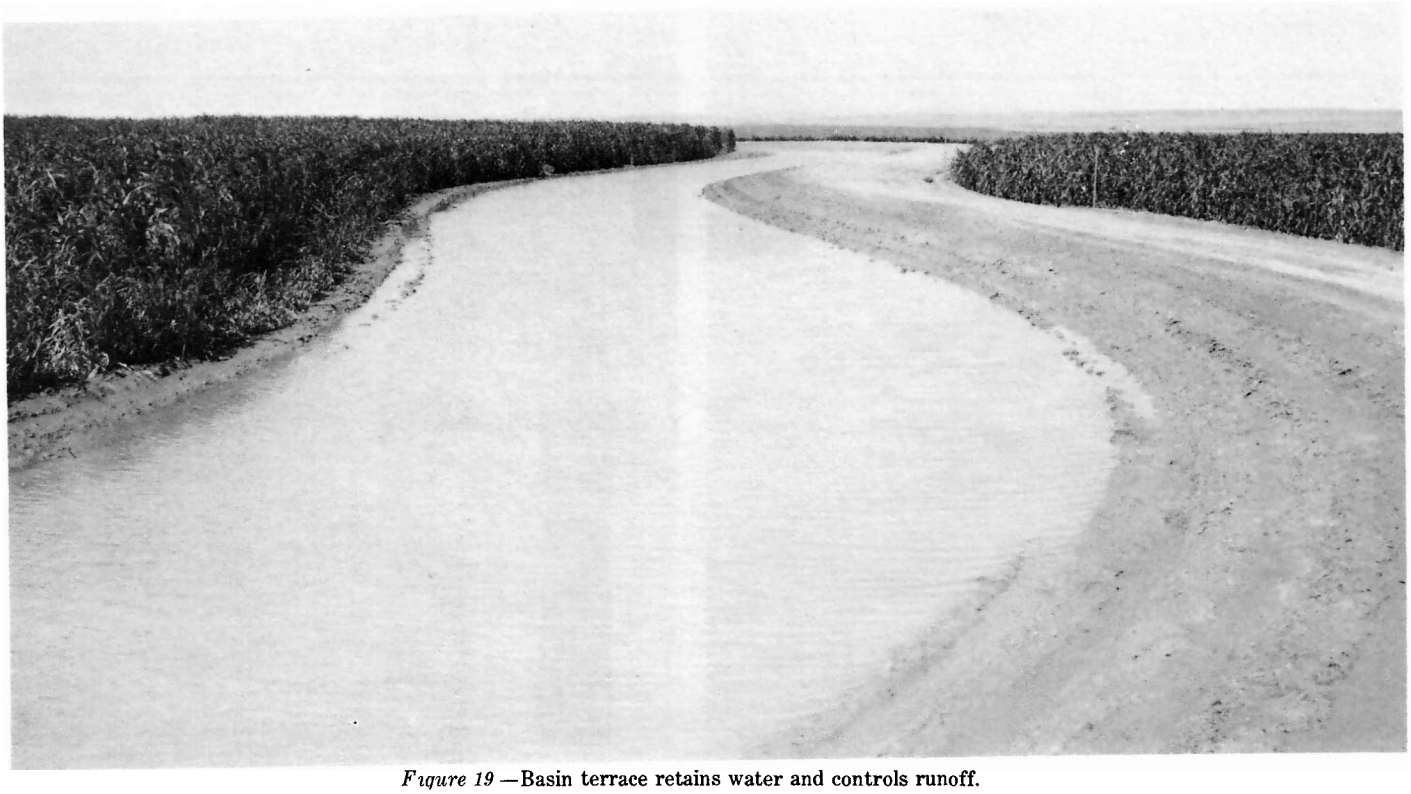

Figure 19.—Basin terrace retains water and controls runoff.

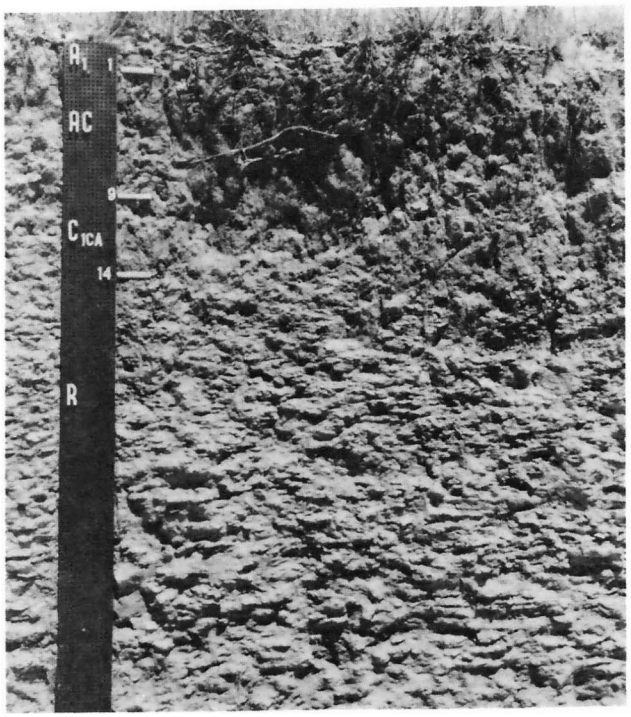

Figure 20.—Profile of Shingle loam. Calcareous interbedded soft sandstone and shale is at a depth of about 14 inches.

Figure 21.—Range pitting in Stoneham loam, 5 to 9 percent slopes. Pits hold 4 inches of water after a heavy rain, and no runoff is evident.

Figure 22.—Diverting runoff protects low-lying nonirrigated cropland. Diversions are most common on moderately sloping soils.

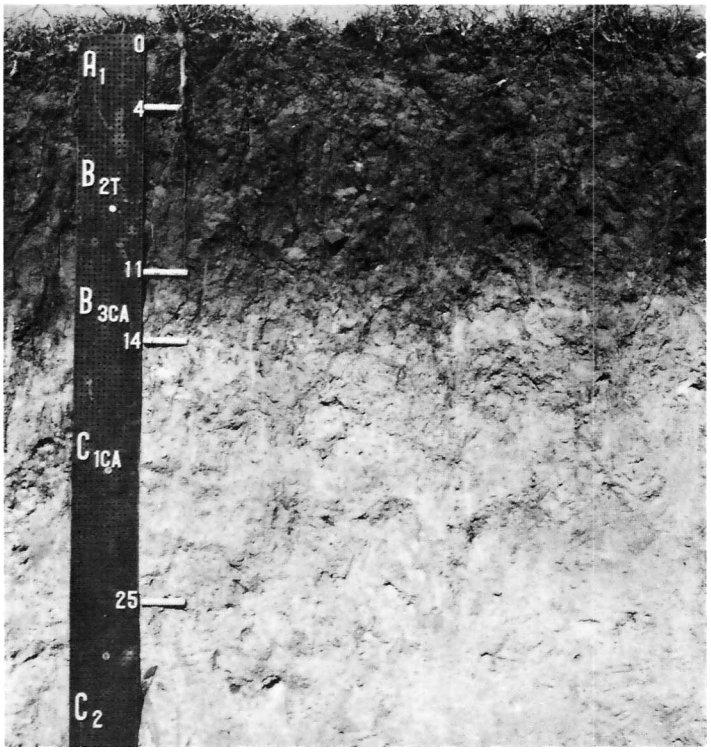

Figure 23.—Profile of Wages loam showing thin surface layer and subsoil underlain by loamy calcareous mixed eolian and alluvial materials.

Figure 24.—Newly constructed terraces on Wages-Altvan complex, 5 to 9 percent slopes Terraces are effective in controlling erosion and conserving water

Figure 25.—Cottonwoods and willows on Fluvaquents. The only natural woodland in the county borders the South Platte River channel.

Figure 26 —Willow, cottonwood, wild plum, alfalfa, and grass provide cover and food for quail and pheasant.

Tables

TABLE 1.--TEMPERATURE AND PRECIPITATION DATA

Month	Temperature[1]						Precipitation[1]				
	Average daily maximum	Average daily minimum	Average daily	2 years in 10 will have-- Maximum temperature higher than--	2 years in 10 will have-- Minimum temperature lower than--	Average number of growing degree days[2]	Average	2 years in 10 will have-- Less than--	2 years in 10 will have-- More than--	Average number of days with 0.10 inch or more	Average snowfall
	F	F	F	F	F		In	In	In		In
January----	38.8	10.8	24.8	67	-16	18	.21	.07	.32	1	4.4
February---	44.5	16.5	30.5	73	-11	42	.20	.03	.32	1	3.5
March------	49.4	22.0	35.7	80	-7	89	.61	.14	.98	2	6.2
April------	61.3	32.7	47.0	86	13	236	1.26	.51	1.85	3	3.5
May--------	71.7	43.9	57.8	94	27	552	2.94	1.40	4.19	6	.7
June-------	82.3	53.1	67.7	102	37	831	2.60	1.36	3.60	6	.0
July-------	89.0	58.2	73.6	103	45	1,042	2.63	1.08	3.87	6	.0
August-----	87.6	56.0	71.8	101	43	986	1.66	.43	2.63	4	.0
September--	77.0	45.1	61.1	95	28	633	1.19	.27	1.91	3	.0
October----	66.0	34.0	50.0	87	16	321	.99	.34	1.49	2	2.7
November---	50.2	22.1	36.2	75	0	54	.47	.03	.80	1	4.9
December---	40.7	13.7	27.2	68	-13	14	.34	.09	.53	1	4.5
Year-----	63.2	34.0	48.6	105	-20	4,818	15.10	11.94	18.05	36	30.4

[1]Recorded in the period 1951-73 at Sterling, Colo.

[2]A growing degree day is an index of the amount 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 F.).

TABLE 2.--FREEZE DATES IN SPRING AND FALL

Probability	Minimum temperature[1]		
	24 F. or lower	28 F. or lower	32 F. or lower
Last freezing temperature in spring:			
1 year in 10 later than--	April 30	May 09	May 23
2 years in 10 later than--	April 25	May 04	May 19
5 years in 10 later than--	April 15	April 25	May 10
First freezing temperature in fall:			
1 year in 10 earlier than--	October 08	September 23	September 12
2 years in 10 earlier than--	October 13	September 30	September 17
5 years in 10 earlier than--	October 22	October 11	September 27

[1]Recorded in the period 1951-73 at Sterling, Colo.

TABLE 3.--GROWING SEASON LENGTH

Probability	Daily minimum temperature during growing season[1]		
	Higher than 24 F.	Higher than 28 F.	Higher than 32 F.
	Days	Days	Days
9 years in 10	167	149	121
8 years in 10	175	155	128
5 years in 10	189	168	139
2 years in 10	203	181	151
1 year in 10	211	187	157

[1]Recorded in the period 1951-73 at Sterling, Colo.

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

Map symbol	Soil name	Acres	Percent
1	Albinas loam, 0 to 3 percent slopes	10,000	0.8
2	Alda sandy loam	1,200	0.1
3	Alda loam	4,200	0.4
4	Altvan-Eckley sandy loams, 3 to 5 percent slopes	5,100	0.4
5	Altvan-Eckley sandy loams, 5 to 9 percent slopes	4,500	0.4
6	Aquolls	6,600	0.6
7	Argiustolls, wet, 2 to 9 percent slopes	1,500	0.1
8	Argiustolls-Rock outcrop complex, 1 to 9 percent slopes	4,100	0.3
9	Arvada silt loam	800	0.1
10	Ascalon fine sandy loam, 0 to 3 percent slopes	8,800	0.7
11	Ascalon fine sandy loam, 3 to 5 percent slopes	15,500	1.3
12	Ascalon fine sandy loam, 5 to 9 percent slopes	5,100	0.4
13	Badland	8,600	0.7
14	Bankard sand	8,900	0.8
15	Bayard-Canyon complex, 1 to 9 percent slopes	3,100	0.3
16	Bridgeport loam	1,700	0.1
17	Canyon gravelly loam, 1 to 25 percent slopes	5,400	0.5
18	Chappell sandy loam	6,600	0.6
19	Colby loam, 6 to 20 percent slopes	3,200	0.3
20	Dacono loam	5,600	0.5
21	Dailey loamy sand, 0 to 3 percent slopes	4,900	0.4
22	Dailey loamy sand, 3 to 9 percent slopes	27,400	2.3
23	Dailey loamy sand, thick surface	6,500	0.6
24	Dix-Altvan complex, 9 to 25 percent slopes	18,100	1.5
25	Dix-Eckley complex, 5 to 25 percent slopes	17,500	1.5
26	Els loamy sand	1,000	0.1
27	Epping loam, 3 to 9 percent slopes	900	0.1
28	Fluvaquentic Haplaquolls	4,500	0.4
29	Fluvaquents	15,500	1.3
30	Glenberg fine sandy loam	1,700	0.1
31	Gravel pits	480	(1)
32	Haverson loam, 0 to 1 percent slopes	10,600	0.9
33	Haverson loam, 1 to 3 percent slopes	1,100	0.1
34	Haverson loam, frequently flooded	3,600	0.3
35	Haverson loam, saline	2,700	0.2
36	Haxtun loamy sand, 0 to 3 percent slopes	22,700	1.9
37	Haxtun loamy sand, 3 to 5 percent slopes	2,100	0.2
38	Haxtun sandy loam	11,000	0.9
39	Hayford silty clay loam	3,100	0.3
40	Hayford silty clay loam, saline	1,500	0.1
41	Heldt clay loam	1,700	0.1
42	Heldt clay loam, saline	2,300	0.2
43	Iliff loam	12,900	1.1
44	Julesburg loamy sand, 0 to 3 percent slopes	7,500	0.6
45	Julesburg loamy sand, 3 to 9 percent slopes	7,300	0.6
46	Julesburg fine sandy loam, 0 to 3 percent slopes	2,200	0.2
47	Julesburg fine sandy loam, 3 to 5 percent slopes	700	0.1
48	Julesburg fine sandy loam, 5 to 9 percent slopes	1,500	0.1
49	Julesburg-Eckley complex, 3 to 9 percent slopes	7,100	0.6
50	Keith loam	5,200	0.4
51	Kim loam, 3 to 9 percent slopes	4,200	0.4
52	Kuma loam	4,200	0.4
53	Kutch clay loam, 0 to 3 percent slopes	1,900	0.2
54	Kutch clay loam, 3 to 9 percent slopes	1,900	0.2
55	Lebsack silty clay loam	2,400	0.2
56	Lebsack clay loam, saline	6,600	0.6
57	Lebsack clay loam, wet	2,600	0.2
58	Loveland clay loam	4,600	0.4
59	Manter loamy sand, 0 to 3 percent slopes	1,700	0.1
60	Manter loamy sand, 3 to 9 percent slopes	8,400	0.7
61	Manter sandy loam, 0 to 3 percent slopes	11,700	1.0
62	Manter sandy loam, 3 to 5 percent slopes	9,800	0.8
63	Manter sandy loam, 5 to 9 percent slopes	8,500	0.7
64	Manter sandy loam, water table	1,100	0.1
65	Manter sandy loam, wet	900	0.1
66	Manzanola clay loam	3,600	0.3
67	Midway clay loam, 5 to 20 percent slopes	6,700	0.6
68	Mitchell loam, 0 to 3 percent slopes	20,100	1.7
69	Mitchell-Keota loams, 0 to 3 percent slopes	1,100	0.1
70	Mitchell-Keota loams, 3 to 9 percent slopes	17,000	1.4

See footnote at end of table.

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

Map symbol	Soil name	Acres	Percent
71	Mitchell-Norka loams, 0 to 3 percent slopes	7,600	0.6
72	Mosher loam	3,000	0.3
73	Mosher clay	2,200	0.2
74	Norka loam, 0 to 1 percent slopes	2,600	0.2
75	Norka-Ulysses loams, 1 to 3 percent slopes	17,200	1.5
76	Nunn loam, 0 to 1 percent slopes	2,900	0.2
77	Nunn loam, 1 to 3 percent slopes	15,800	1.3
78	Nunn loam, 3 to 5 percent slopes	1,000	0.1
79	Nunn loam, 5 to 9 percent slopes	2,100	0.2
80	Nunn clay loam, 1 to 3 percent slopes	2,400	0.2
81	Nunn clay loam, 3 to 9 percent slopes	1,100	0.1
82	Nunn clay loam, water table	14,000	1.2
83	Nunn clay loam, wet	6,500	0.6
84	Olney sandy loam, 3 to 5 percent slopes	2,200	0.2
85	Olney sandy loam, 5 to 9 percent slopes	2,700	0.2
86	Peetz gravelly sandy loam, 5 to 25 percent slopes	7,900	0.7
87	Platner sandy loam, 0 to 3 percent slopes	12,000	1.0
88	Platner loam, 0 to 1 percent slopes	1,200	0.1
89	Platner loam, 1 to 3 percent slopes	51,700	4.4
90	Platner loam, 3 to 5 percent slopes	24,700	2.1
91	Platner-Rago-Dacono loams	23,000	1.9
92	Rago loam	68,500	5.8
93	Rago clay loam	1,600	0.1
94	Renohill-Shingle complex, 3 to 9 percent slopes	9,200	0.8
95	Rock outcrop-Argiustolls complex, 9 to 35 percent slopes	4,100	0.3
96	Rosebud-Escabosa loams, 3 to 5 percent slopes	19,400	1.6
97	Rosebud-Escabosa loams, 5 to 9 percent slopes	11,300	1.0
98	Rosebud-Escabosa-Iliff loams, 0 to 3 percent slopes	8,500	0.7
99	Satanta loam, 0 to 1 percent slopes	8,400	0.7
100	Satanta loam, 1 to 3 percent slopes	22,400	1.9
101	Satanta loam, 3 to 5 percent slopes	500	(1)
102	Satanta loam, water table	1,500	0.1
103	Satanta loam, wet	9,200	0.8
104	Shingle loam, 1 to 9 percent slopes	5,400	0.5
105	Stoneham sandy loam, 3 to 9 percent slopes	6,000	0.5
106	Stoneham loam, 3 to 5 percent slopes	11,700	1.0
107	Stoneham loam, 5 to 9 percent slopes	28,700	2.4
108	Stoneham-Cushman complex, 3 to 9 percent slopes	19,100	1.6
109	Thedalund-Kim-Shingle complex, 9 to 20 percent slopes	7,100	0.6
110	Ulysses-Norka loams, 3 to 5 percent slopes	2,200	0.2
111	Ulysses-Norka-Colby loams, 5 to 9 percent slopes	8,100	0.7
112	Ustic Torriorthents	5,800	0.5
113	Valent sand, 0 to 1 percent slopes	500	(1)
114	Valent sand, 15 to 40 percent slopes	15,400	1.3
115	Valent loamy sand, 3 to 15 percent slopes	95,100	8.0
116	Vona loamy sand, 3 to 9 percent slopes	3,800	0.3
117	Vona fine sandy loam, 3 to 9 percent slopes	2,800	0.2
118	Wages loam, 0 to 3 percent slopes	20,100	1.7
119	Wages loam, 3 to 5 percent slopes	53,800	4.5
120	Wages loam, 5 to 9 percent slopes	17,800	1.5
121	Wages-Altvan complex, 5 to 9 percent slopes	9,200	0.8
122	Wages-Manter complex, 3 to 9 percent slopes	9,400	0.8
123	Wages-Rosebud loams, 3 to 5 percent slopes	1,600	0.1
124	Wages-Rosebud loams, 5 to 9 percent slopes	13,900	1.2
125	Weld loam, 0 to 1 percent slopes	500	(1)
126	Weld loam, 1 to 3 percent slopes	24,300	2.1
127	Westplain silty clay loam	800	0.1
128	Westplain-Alda complex	3,000	0.3
	Water	14,080	1.2
	Total	1,183,360	100.0

[1]Less than 0.1 percent.

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

[Yields in columns N are for nonirrigated soils; those in columns I are for irrigated soils. All yields were estimated for a high level of management in 1974. Absence of a yield figure indicates the crop is seldom grown or is not suited]

Soil name and map symbol	Alfalfa hay		Sugar beets		Corn		Corn silage		Wheat		Grain sorghum	
	N	I	N	I	N	I	N	I	N	I	N	I
	Ton	Ton	Ton	Ton	Bu	Bu	Ton	Ton	Bu	Bu	Bu	Bu
Albinas:												
1	---	5.5	---	22	---	125	---	25	35	50	28	---
Alda:												
[1]2	---	5.5	---	20	---	105	---	23	---	45	---	---
3	---	6.0	---	20	---	105	---	22	---	40	---	---
Altvan:												
[2]4	---	4.0	---	13	---	65	---	15	19	32	---	---
[2]5	---	3.5	---	11	---	60	---	13	---	28	---	---
Aquolls:												
6	---	3.5	---	10	---	50	---	10	---	---	---	---
Argiustolls.												
7	---	5.0	---	13	---	50	---	12	---	---	---	---
Ascalon:												
10	---	5.0	---	20	24	130	---	24	20	60	21	85
11	---	4.0	---	---	18	100	---	20	19	55	18	70
12	---	3.0	---	---	---	---	---	---	17	45	12	---
Bankard:												
14	---	2.5	---	---	---	50	---	---	---	30	---	50
Bridgeport:												
16	---	5.5	---	23	---	150	---	26	---	60	---	80
Chappell:												
18	---	4.0	---	16	---	80	---	16	17	40	---	---
Dacono:												
20	---	4.3	---	22	---	110	---	22	25	55	34	---
Dailey:												
21, 22	---	6.0	---	20	---	140	---	24	---	---	---	---
23	2.0	6.0	---	21	---	150	---	25	---	50	---	---
Els:												
26	---	3.5	---	14	---	50	---	12	---	---	---	---

See footnotes at end of table.

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

Soil name and map symbol	Alfalfa hay		Sugar beets		Corn		Corn silage		Wheat		Grain sorghum	
	N	I	N	I	N	I	N	I	N	I	N	I
	Ton	Ton	Ton	Ton	Bu	Bu	Ton	Ton	Bu	Bu	Bu	Bu
Fluvaquentic Haplaquolls:												
28	---	2.5	---	10	---	50	---	10	---	---	---	---
Glenberg:												
30	---	5.0	---	16	---	100	---	19	18	50	16	60
Haverson:												
32	---	5.0	---	23	---	140	---	22	19	55	19	70
33	---	4.5	---	18	---	130	---	---	19	50	19	60
34	---	4.5	---	15	---	75	---	15	---	40	---	50
35	---	4.5	---	16	---	80	---	16	---	35	18	55
Haxtun:												
36	---	5.0	---	18	45	110	---	20	25	45	39	---
37	---	3.5	---	---	---	100	---	19	20	40	33	---
38	---	5.3	---	23	45	145	---	22	30	50	43	---
Hayford:												
39	---	6.0	---	22	---	175	---	28	---	---	---	---
40	---	4.8	---	16	---	80	---	16	---	---	---	---
Heldt:												
41	---	4.5	---	20	---	90	---	25	24	55	---	---
Iliff:												
43	---	4.5	---	20	---	120	---	24	30	---	35	---
Julesburg:												
44	---	6.0	---	20	---	140	---	24	20	50	---	---
45	---	6.0	---	20	---	140	---	24	---	50	---	---
46	---	5.5	---	19	---	115	---	20	20	55	20	65
47	---	4.5	---	---	---	100	---	18	20	45	15	60
48	---	4.0	---	---	---	60	---	15	17	35	---	35
249	---	6.0	---	20	---	140	---	24	---	---	---	---
Keith:												
50	---	5.3	---	22	---	160	---	26	32	---	38	105
Kim:												
51	---	3.0	---	---	---	60	---	12	---	---	---	---
Kuma:												
52	---	6.0	---	23	---	175	---	28	34	60	38	---
Kutch:												
53	---	4.5	---	16	---	110	---	20	24	---	---	---
54	---	---	---	---	---	---	---	---	20	---	---	---
Lebsack:												
55	---	6.0	---	22	---	150	---	25	---	58	---	---
56	---	3.5	---	12	---	60	---	12	---	---	---	---
57	---	5.0	---	18	---	120	---	21	---	---	---	---
Loveland:												
58	---	6.0	---	20	---	150	---	24	---	45	---	---

See footnotes at end of table.

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

Soil name and map symbol	Alfalfa hay		Sugar beets		Corn		Corn silage		Wheat		Grain sorghum	
	N	I	N	I	N	I	N	I	N	I	N	I
	Ton	Ton	Ton	Ton	Bu	Bu	Ton	Ton	Bu	Bu	Bu	Bu
Manter:												
59	---	5.0	---	15	---	110	---	18	20	45	20	60
60	---	5.0	---	18	---	130	---	20	---	40	---	---
61	---	5.5	---	19	---	115	---	20	25	55	20	65
62	---	4.5	---	15	---	100	---	15	20	45	15	60
63	---	3.0	---	---	---	60	---	15	17	40	10	40
64	---	6.0	---	19	---	115	---	20	---	55	---	---
65	---	6.0	---	17	---	75	---	18	---	---	---	---
Manzanola:												
66	---	4.5	---	17	---	100	---	18	16	45	---	80
Mitchell:												
68	---	---	---	---	---	---	---	---	16	---	---	---
[2]69	---	---	---	---	---	---	---	---	16	---	---	---
[2]71	---	---	---	---	---	---	---	---	16	---	---	---
Mosher:												
72	---	3.5	---	8	---	45	---	8	---	---	---	---
Norka:												
74	---	5.5	---	25	---	160	---	26	30	60	---	60
[2]75	---	5.0	---	20	---	150	---	23	30	55	---	---
Nunn:												
76	---	6.0	---	25	---	160	---	27	25	65	---	---
77, 80	---	5.5	---	21	---	140	---	23	25	60	---	---
78	---	---	---	---	---	---	---	---	18	---	---	---
79, 81	---	---	---	---	---	---	---	---	15	---	---	---
82	---	6.0	---	25	---	160	---	28	---	65	---	---
83	---	5.2	---	18	---	110	---	22	---	40	---	---
Olney:												
84	---	---	---	---	---	---	---	---	16	---	---	---
Platner:												
87	---	5.2	---	22	---	145	---	24	28	50	---	---
88	---	5.5	---	25	---	160	---	27	28	50	34	60
89	---	5.2	---	23	---	145	---	24	28	50	34	---
90	---	4.7	---	17	---	110	---	21	26	38	28	---
[2]91	---	5.2	---	22	---	145	---	24	27	54	---	---
Rago:												
92	---	5.5	---	21	---	150	---	27	30	55	35	85

See footnotes at end of table.

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

Soil name and map symbol	Alfalfa hay		Sugar beets		Corn		Corn silage		Wheat		Grain sorghum	
	N	I	N	I	N	I	N	I	N	I	N	I
	Ton	Ton	Ton	Ton	Bu	Bu	Ton	Ton	Bu	Bu	Bu	Bu
Rago:												
93	---	---	---	---	---	---	---	---	20	---	---	---
Renohill:												
[2]94	---	4.0	---	16	---	90	---	15	---	---	---	---
Rosebud:												
[2]96	---	4.0	---	15	---	95	---	16	20	35	---	---
[2]97	---	3.0	---	13	---	75	---	13	18	30	---	---
[2]98	---	5.0	---	18	---	110	---	19	24	45	---	---
Satanta:												
99	---	6.0	---	25	---	175	---	28	30	55	---	---
100	---	5.0	---	22	---	160	---	25	30	50	40	---
101	---	4.0	---	17	---	110	---	18	24	40	32	---
102	---	6.0	---	21	---	150	---	24	---	55	---	---
103	---	5.0	---	16	---	100	---	19	---	45	---	---
Stoneham:												
105, 107	---	3.0	---	---	---	65	---	---	---	---	---	---
106	---	4.0	---	14	---	80	---	15	15	---	12	40
Ulysses:												
[2]110	---	4.5	---	17	---	100	---	17	25	55	38	70
[2]111	---	---	---	---	---	---	---	---	18	---	20	---
Valent:												
113	---	3.5	---	15	---	75	---	14	---	---	---	---
Vona:												
116	---	3.5	---	---	---	80	---	---	---	35	---	---
117	---	4.0	---	15	---	90	---	15	---	40	---	---
Wages:												
118	---	5.5	---	22	20	150	---	23	30	55	38	70
119	---	4.5	---	17	---	105	---	18	24	45	30	60
120	---	3.0	---	13	---	85	---	15	20	35	20	45
[2]121	---	3.0	---	12	---	85	---	---	20	35	20	45
[2]123	---	4.5	---	17	---	105	---	18	24	45	30	60
[2]124	---	3.0	---	12	---	85	---	---	20	35	20	45
Weld:												
125	---	6.0	---	24	---	155	---	24	25	65	30	60
126	---	5.5	---	22	---	140	---	22	25	60	30	55
Westplain:												
127	---	5.0	---	16	---	90	---	15	---	---	---	---
[2]128	---	5.0	---	17	---	95	---	19	---	---	---	---

[1]Yields are for areas protected from flooding.
[2]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION

[Soils not listed are not in range sites; such soils can be used for grazing if grass cover is established]

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Albinas:					
1	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Alda:					
2	Sandy meadow	Favorable	4,500	Sand bluestem	30
		Normal	4,000	Sand reedgrass	20
		Unfavorable	3,000	Little bluestem	12
				Switchgrass	8
				Indiangrass	8
				Prairie cordgrass	6
				Western wheatgrass	5
				Sedge	5
3	Sandy meadow	Favorable	4,500	Sand bluestem	30
		Normal	4,000	Sand reedgrass	20
		Unfavorable	3,000	Little bluestem	12
				Switchgrass	8
				Indiangrass	8
				Prairie cordgrass	6
				Western wheatgrass	5
				Sedge	5
Altvan:					
[1]4:					
Altvan part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Eckley part	Gravel breaks	Favorable	1,400	Blue grama	30
		Normal	900	Sideoats grama	10
		Unfavorable	600	Little bluestem	10
				Buffalograss	5
				Sedge	5
[1]5:					
Altvan part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Sedge	5
				Buffalograss	5
Eckley part	Gravel breaks	Favorable	1,400	Blue grama	30
		Normal	900	Sideoats grama	10
		Unfavorable	600	Little bluestem	10
				Buffalograss	5
				Sedge	5
Aquolls:					
6	Salt meadow	Favorable	3,500	Saltgrass	45
		Normal	3,000	Alkali sacaton	25
		Unfavorable	2,500	Sedge	10
				Switchgrass	5
				Blue grama	5
				Western wheatgrass	5
[1]8:					
Argiustolls part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Western wheatgrass	20
				Sedge	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Argiustolls:					
18:					
Rock outcrop part.					
Arvada:					
9	Salt flats	Favorable	1,500	Gardner saltbush	30
		Normal	1,200	Western wheatgrass	20
		Unfavorable	1,000	Alkali sacaton	10
				Greasewood	10
				Inland saltgrass	10
				Bottlebrush squirreltail	5
				Winterfat	5
Ascalon:					
10, 11, 12	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Sedge	5
				Western wheatgrass	20
Bankard:					
14	Sandy bottomland	Favorable	3,000	Sand reedgrass	25
		Normal	2,500	Blue grama	10
		Unfavorable	2,000	Needleandthread	10
				Western wheatgrass	5
				Sand dropseed	5
				Switchgrass	15
				Sand bluestem	5
				Sand sagebrush	5
				Sedge	5
Bayard:					
15:					
Bayard part	Sandy plains	Favorable	2,000	Sand reedgrass	20
		Normal	1,800	Needleandthread	5
		Unfavorable	1,500	Blue grama	25
				Switchgrass	10
				Sand dropseed	5
				Sand bluestem	8
				Sand sagebrush	5
				Little bluestem	15
Canyon part	Limestone breaks	Favorable	1,250	Little bluestem	25
		Normal	1,000	Sideoats grama	15
		Unfavorable	625	Blue grama	15
				Sedge	8
				Needleandthread	5
				Red threeawn	5
				Sand reedgrass	5
Bridgeport:					
16	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Sedge	5
				Western wheatgrass	20
Canyon:					
17	Limestone breaks	Favorable	1,250	Little bluestem	25
		Normal	1,000	Sideoats grama	15
		Unfavorable	625	Blue grama	15
				Sedge	8
				Needleandthread	5
				Red threeawn	5
				Sand reedgrass	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Chappell:					
18	Sandy plains	Favorable	2,000	Sand reedgrass	20
		Normal	1,800	Needleandthread	5
		Unfavorable	1,500	Blue grama	25
				Little bluestem	15
				Sand dropseed	5
				Switchgrass	10
				Sand sagebrush	5
				Sand bluestem	8
Colby:					
19	Loamy slopes	Favorable	1,600	Little bluestem	5
		Normal	1,100	Sideoats grama	10
		Unfavorable	800	Blue grama	45
				Western wheatgrass	10
				Needleandthread	5
				Squirreltail	5
				Sedge	5
Dacono:					
20	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Dailey:					
21, 22	Deep sand	Favorable	2,500	Sand reedgrass	20
		Normal	2,000	Blue grama	15
		Unfavorable	1,500	Sand sagebrush	10
				Sand bluestem	10
				Sand dropseed	5
				Sedge	5
				Little bluestem	5
				Switchgrass	5
				Sideoats grama	5
				Needleandthread	5
23	Deep sand	Favorable	2,500	Sand reedgrass	20
		Normal	2,000	Switchgrass	5
		Unfavorable	1,500	Sand bluestem	10
				Little bluestem	5
				Blue grama	15
				Sedge	5
				Sand sagebrush	10
				Needleandthread	5
				Sand dropseed	5
				Sideoats grama	5
Dix:					
[1]24:					
Dix part	Gravel breaks	Favorable	1,400	Blue grama	30
		Normal	900	Sideoats grama	10
		Unfavorable	600	Little bluestem	10
				Buffalograss	5
				Sedge	5
Altvan part	Loamy plains	Favorable	2,500	Western wheatgrass	20
		Normal	2,000	Blue grama	55
		Unfavorable	1,250	Sedge	5
				Buffalograss	5
[1]25:					
Dix part	Gravel breaks	Favorable	1,400	Blue grama	30
		Normal	900	Sideoats grama	10
		Unfavorable	600	Little bluestem	10
				Buffalograss	5
				Sedge	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Dix:					
[1]25:					
Eckley part	Gravel breaks	Favorable	1,400	Blue grama	30
		Normal	900	Sideoats grama	10
		Unfavorable	600	Little bluestem	10
				Buffalograss	5
				Sedge	5
Els:					
26	Sandy meadow	Favorable	4,500	Sand reedgrass	20
		Normal	4,000	Sand bluestem	30
		Unfavorable	3,000	Indiangrass	8
				Prairie cordgrass	6
				Switchgrass	8
				Little bluestem	12
				Sedge	5
				Western wheatgrass	5
Epping:					
27	Shallow siltstone	Favorable	800	Blue grama	50
		Normal	600	Threadleaf sedge	10
		Unfavorable	400	Winterfat	18
				Sideoats grama	5
				Western wheatgrass	8
Fluvaquentic Haplaquolls:					
28	Salt meadow	Favorable	3,500	Inland saltgrass	15
		Normal	3,000	Alkali sacaton	50
		Unfavorable	2,500	Western wheatgrass	5
				Sedge	10
				Switchgrass	15
				Rush	5
Glenberg:					
30	Sandy bottomland	Favorable	3,000	Sand reedgrass	25
		Normal	2,500	Blue grama	10
		Unfavorable	2,000	Needleandthread	10
				Western wheatgrass	5
				Sand dropseed	5
				Switchgrass	15
				Sand bluestem	5
				Sand sagebrush	5
				Sedge	5
Haverson:					
32, 33	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
34	Overflow	Favorable	2,000	Western wheatgrass	40
		Normal	1,600	Blue grama	10
		Unfavorable	1,500	Switchgrass	10
				Buffalograss	5
				Sedge	5
				Big bluestem	10
				Green needlegrass	15
35	Salt meadow	Favorable	3,500	Western wheatgrass	5
		Normal	3,000	Inland saltgrass	15
		Unfavorable	2,500	Switchgrass	15
				Alkali sacaton	50
				Sedge	10
				Rush	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Haxtun:					
36, 37, 38	Sandy plains	Favorable	2,000	Sand reedgrass	20
		Normal	1,800	Little bluestem	15
		Unfavorable	1,500	Switchgrass	10
				Blue grama	25
				Sand bluestem	8
				Sand sagebrush	5
				Needleandthread	5
				Sand dropseed	5
Hayford:					
39, 40	Salt meadow	Favorable	3,500	Inland saltgrass	15
		Normal	3,000	Alkali sacaton	50
		Unfavorable	2,500	Sedge	10
				Switchgrass	15
				Western wheatgrass	5
				Rush	5
Heldt:					
41	Clayey plains	Favorable	1,200	Western wheatgrass	30
		Normal	900	Green needlegrass	7
		Unfavorable	600	Buffalograss	10
				Blue grama	30
				Alkali sacaton	5
				Sedge	5
42	Salt flat	Favorable	1,500	Inland saltgrass	20
		Normal	1,200	Alkali sacaton	50
		Unfavorable	1,000	Western wheatgrass	10
				Fourwing saltbush	5
Iliff:					
43	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Julesburg:					
44, 45, 46, 47, 48	Sandy plains	Favorable	2,000	Sand reedgrass	20
		Normal	1,800	Little bluestem	15
		Unfavorable	1,500	Blue grama	25
				Switchgrass	10
				Needleandthread	5
				Sand sagebrush	5
				Sand dropseed	5
				Sand bluestem	8
[1]49:					
Julesburg part	Sandy plains	Favorable	2,000	Blue grama	25
		Normal	1,800	Sand reedgrass	20
		Unfavorable	1,500	Little bluestem	15
				Switchgrass	10
				Sand bluestem	8
				Needleandthread	5
				Sand dropseed	5
				Sand sagebrush	5
Eckley part	Gravel breaks	Favorable	1,400	Blue grama	30
		Normal	900	Sideoats grama	10
		Unfavorable	600	Little bluestem	10
				Buffalograss	5
				Sedge	5
Keith:					
50	Loamy plains	Favorable	2,000	Western wheatgrass	20
		Normal	1,800	Blue grama	55
		Unfavorable	1,400	Sedge	5
				Buffalograss	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Kim:					
51	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Kuma:					
52	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Western wheatgrass	20
				Sedge	5
Kutch:					
53, 54	Clayey plains	Favorable	1,200	Western wheatgrass	30
		Normal	900	Green needlegrass	7
		Unfavorable	600	Blue grama	30
				Alkali sacaton	5
				Sedge	5
				Buffalograss	10
Lebsack:					
55, 56, 57	Salt meadow	Favorable	3,500	Inland saltgrass	15
		Normal	3,000	Alkali sacaton	50
		Unfavorable	2,500	Sedge	10
				Western wheatgrass	5
				Switchgrass	15
				Rush	5
Loveland:					
58	Salt meadow	Favorable	3,500	Inland saltgrass	15
		Normal	3,000	Alkali sacaton	50
		Unfavorable	2,500	Sedge	10
				Western wheatgrass	5
				Switchgrass	15
				Rush	5
Manter:					
59, 60, 61, 62, 63	Sandy plains	Favorable	2,000	Sand reedgrass	20
		Normal	1,800	Little bluestem	15
		Unfavorable	1,500	Blue grama	25
				Switchgrass	10
				Sand dropseed	5
				Sand sagebrush	5
				Needleandthread	5
				Sand bluestem	8
64, 65	Sandy meadow	Favorable	4,500	Sand bluestem	30
		Normal	4,000	Sand reedgrass	20
		Unfavorable	3,000	Little bluestem	12
				Switchgrass	8
				Indiangrass	8
				Prairie cordgrass	6
				Western wheatgrass	5
				Sedge	5
Manzanola:					
66	Clayey plains	Favorable	1,200	Buffalograss	10
		Normal	900	Western wheatgrass	30
		Unfavorable	600	Green needlegrass	7
				Blue grama	30
				Alkali sacaton	5
				Sedge	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Midway:					
67	Shaly plains	Favorable	900	Alkali sacaton	30
		Normal	550	Blue grama	25
		Unfavorable	300	Sideoats grama	15
				Western wheatgrass	10
				Fourwing saltbush	5
				Winterfat	5
				Sedge	5
Mitchell:					
68	Siltstone plains	Favorable	1,800	Blue grama	45
		Normal	1,200	Buffalograss	5
		Unfavorable	900	Fourwing saltbush	10
				Sand dropseed	5
				Winterfat	5
				Western wheatgrass	20
[1]69:					
Mitchell part	Siltstone plains	Favorable	1,800	Blue grama	45
		Normal	1,200	Buffalograss	5
		Unfavorable	900	Fourwing saltbush	10
				Sand dropseed	5
				Winterfat	5
				Western wheatgrass	20
Keota part	Siltstone plains	Favorable	1,800	Blue grama	45
		Normal	1,200	Western wheatgrass	20
		Unfavorable	900	Buffalograss	5
				Fourwing saltbush	10
				Sand dropseed	5
				Winterfat	5
[1]70:					
Mitchell part	Shallow siltstone	Favorable	1,800	Blue grama	45
		Normal	1,200	Winterfat	18
		Unfavorable	900	Western wheatgrass	8
				Threadleaf sedge	10
				Sideoats grama	5
Keota part	Shallow siltstone	Favorable	800	Blue grama	50
		Normal	600	Winterfat	18
		Unfavorable	400	Western wheatgrass	8
				Sideoats grama	5
				Threadleaf sedge	10
[1]71:					
Mitchell part	Siltstone plains	Favorable	1,800	Blue grama	45
		Normal	1,200	Buffalograss	5
		Unfavorable	900	Sand dropseed	5
				Fourwing saltbush	10
				Winterfat	5
				Western wheatgrass	20
Norka part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Mosher:					
72	Salt meadow	Favorable	3,500	Inland saltgrass	15
		Normal	3,000	Alkali sacaton	50
		Unfavorable	2,500	Western wheatgrass	5
				Sedge	10
				Switchgrass	15
				Rush	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Mosher:					
73	Salt flat	Favorable	1,500	Inland saltgrass	20
		Normal	1,200	Alkali sacaton	50
		Unfavorable	1,000	Western wheatgrass	10
				Fourwing saltbush	5
Norka:					
74	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
[1]75:					
Norka part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Ulysses part	Loamy plains	Favorable	2,000	Western wheatgrass	20
		Normal	1,800	Blue grama	55
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Nunn:					
76, 77, 78, 79	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
80, 81	Clayey plains	Favorable	1,200	Blue grama	30
		Normal	900	Western wheatgrass	30
		Unfavorable	600	Buffalograss	10
				Green needlegrass	7
				Alkali sacaton	5
				Sedge	5
82, 83	Salt meadow	Favorable	3,500	Inland saltgrass	15
		Normal	3,000	Alkali sacaton	50
		Unfavorable	2,500	Sedge	10
				Switchgrass	15
				Western wheatgrass	5
				Rush	5
Olney:					
84, 85	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Peetz:					
86	Gravel breaks	Favorable	1,400	Blue grama	30
		Normal	900	Little bluestem	10
		Unfavorable	600	Sideoats grama	10
				Buffalograss	5
				Sedge	5
Platner:					
87, 88, 89, 90	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
[1]91:					
Platner part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Platner:					
[1]91:					
Rago part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Dacono part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Rago:					
92	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
93	Clayey plains	Favorable	1,200	Western wheatgrass	30
		Normal	900	Blue grama	30
		Unfavorable	600	Buffalograss	10
				Green needlegrass	7
				Alkali sacaton	5
				Sedge	5
Renohill:					
[1]94:					
Renohill part	Loamy plains	Favorable	1,800	Blue grama	55
		Normal	1,300	Western wheatgrass	20
		Unfavorable	800	Buffalograss	5
				Sedge	5
Shingle part	Shaly plains	Favorable	900	Alkali sacaton	30
		Normal	550	Blue grama	45
		Unfavorable	300	Western wheatgrass	10
				Fourwing saltbush	5
				Winterfat	5
				Sedge	5
				Sideoats grama	10
Rock outcrop:					
[1]95:					
Rock outcrop part.					
Argiustolls part	Loamy slopes	Favorable	1,800	Blue grama	45
		Normal	1,200	Western wheatgrass	10
		Unfavorable	800	Sideoats grama	10
				Little bluestem	5
				Needleandthread	5
				Sedge	5
Rosebud:					
[1]96:					
Rosebud part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Escabosa part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Rosebud:					
[1]97:					
Rosebud part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
Escabosa part	Limestone breaks	Favorable	1,250	Sideoats grama	15
		Normal	1,000	Little bluestem	25
		Unfavorable	625	Blue grama	15
				Sedge	8
				Needleandthread	5
				Sand reedgrass	5
				Red threeawn	5
[1]98:					
Rosebud part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	8
Escabosa part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Sedge	5
				Buffalograss	5
Iliff part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	10
				Sedge	5
Satanta:					
99, 100, 101	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	10
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
102, 103	Salt meadow	Favorable	3,500	Inland saltgrass	15
		Normal	3,000	Alkali sacaton	50
		Unfavorable	2,500	Sedge	10
				Switchgrass	15
				Western wheatgrass	5
				Rush	5
Shingle:					
104	Shaly plains	Favorable	1,200	Alkali sacaton	30
		Normal	900	Blue grama	10
		Unfavorable	450	Western wheatgrass	10
				Fourwing saltbush	5
				Winterfat	5
				Sedge	5
				Sideoats grama	15
Stoneham:					
105	Loamy slopes	Favorable	1,600	Blue grama	45
		Normal	1,200	Western wheatgrass	10
		Unfavorable	900	Sideoats grama	10
				Sedge	5
				Little bluestem	5
				Needleandthread	5
				Squirreltail	5
106, 107	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Western wheatgrass	20
				Sedge	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Stoneham:					
[1]108:					
Stoneham part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Western wheatgrass	20
				Sedge	5
Cushman part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Sedge	5
				Western wheatgrass	20
Thedalund:					
[1]109:					
Thedalund part	Shaly plains	Favorable	900	Blue grama	25
		Normal	550	Sideoats grama	5
		Unfavorable	300	Alkali sacaton	30
				Western wheatgrass	10
				Winterfat	5
				Sedge	5
				Fourwing saltbush	5
Kim part	Loamy slopes	Favorable	1,600	Blue grama	45
		Normal	1,100	Western wheatgrass	10
		Unfavorable	800	Needleandthread	5
				Sideoats grama	10
				Little bluestem	5
				Squirreltail	5
				Sedge	5
Shingle part	Shaly plains	Favorable	900	Alkali sacaton	30
		Normal	550	Blue grama	25
		Unfavorable	300	Western wheatgrass	10
				Fourwing saltbush	5
				Winterfat	5
				Sedge	5
				Sideoats grama	15
Ulysses:					
[1]110:					
Ulysses part	Loamy plains	Favorable	2,000	Western wheatgrass	20
		Normal	1,800	Sedge	5
		Unfavorable	1,400	Blue grama	55
				Buffalograss	5
Norka part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Buffalograss	5
				Sedge	5
[1]111:					
Ulysses part	Loamy slopes	Favorable	2,400	Little bluestem	5
		Normal	1,800	Western wheatgrass	10
		Unfavorable	1,000	Sideoats grama	10
				Blue grama	45
				Squirreltail	5
				Sedge	5
				Needleandthread	5
Norka part	Loamy slopes	Favorable	2,000	Blue grama	45
		Normal	1,700	Western wheatgrass	10
		Unfavorable	1,400	Little bluestem	5
				Sedge	5
				Sideoats grama	10
				Squirreltail	5
				Needleandthread	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Ulysses:					
[1]111:					
Colby part	Loamy slopes	Favorable	2,400	Little bluestem	5
		Normal	1,800	Sideoats grama	10
		Unfavorable	800	Blue grama	45
				Western wheatgrass	10
				Needleandthread	5
				Squirreltail	5
				Sedge	5
Ustic Torriorthents:					
112	Loamy slopes	Favorable	2,400	Little bluestem	5
		Normal	1,800	Western wheatgrass	10
		Unfavorable	800	Sideoats grama	10
				Blue grama	45
				Needleandthread	5
				Squirreltail	5
				Sedge	5
Valent:					
113	Deep sand	Favorable	2,500	Sand reedgrass	20
		Normal	2,000	Blue grama	15
		Unfavorable	1,500	Sand sagebrush	10
				Sand bluestem	10
				Sand dropseed	5
				Sedge	5
				Little bluestem	5
				Switchgrass	5
				Sideoats grama	5
				Needleandthread	5
114	Choppy sand	Favorable	1,500	Indian ricegrass	5
		Normal	1,000	Sand reedgrass	25
		Unfavorable	600	Sand bluestem	25
				Sand dropseed	10
				Needleandthread	10
				Blue grama	5
				Sandhill muhly	5
115	Deep sand	Favorable	2,500	Sand reedgrass	20
		Normal	2,000	Sand bluestem	10
		Unfavorable	1,500	Blue grama	15
				Needleandthread	5
				Little bluestem	5
				Sand dropseed	5
				Sideoats grama	5
				Switchgrass	5
				Sand sagebrush	10
Vona:					
116, 117	Sandy plains	Favorable	2,000	Little bluestem	15
		Normal	1,800	Sand reedgrass	20
		Unfavorable	1,500	Blue grama	25
				Switchgrass	10
				Sand sagebrush	5
				Needleandthread	5
				Sand bluestem	8
				Sand dropseed	5
Wages:					
118, 119, 120	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,700	Buffalograss	5
		Unfavorable	1,400	Sedge	5
				Western wheatgrass	20

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production: Kind of year	Total production: Dry weight	Common plant name	Composition
			Lb/acre		Pct
Wages:					
[1]121:					
Wages part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Sedge	5
				Western wheatgrass	20
Altvan part	Loamy plains	Favorable	2,000	Western wheatgrass	20
		Normal	1,800	Sedge	5
		Unfavorable	1,400	Blue grama	55
				Buffalograss	5
[1]122:					
Wages part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Sedge	5
				Western wheatgrass	20
Manter part	Sandy plains	Favorable	2,000	Blue grama	25
		Normal	1,800	Sand reedgrass	20
		Unfavorable	1,500	Little bluestem	15
				Switchgrass	10
				Sand bluestem	8
				Sand dropseed	5
				Needleandthread	5
				Sand sagebrush	5
[1]123:					
Wages part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Sedge	5
				Western wheatgrass	20
Rosebud part	Loamy plains	Favorable	2,750	Blue grama	55
		Normal	2,000	Western wheatgrass	20
		Unfavorable	1,250	Buffalograss	5
				Sedge	5
[1]124:					
Wages part	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Buffalograss	5
		Unfavorable	1,400	Sedge	5
				Western wheatgrass	20
Rosebud part	Loamy plains	Favorable	2,000	Western wheatgrass	20
		Normal	1,800	Sedge	8
		Unfavorable	1,400	Blue grama	55
				Buffalograss	5
Weld:					
125, 126	Loamy plains	Favorable	2,000	Blue grama	55
		Normal	1,800	Western wheatgrass	20
		Unfavorable	1,400	Sedge	5
				Buffalograss	5
Westplain:					
127	Salt meadow	Favorable	3,500	Inland saltgrass	15
		Normal	3,000	Alkali sacaton	50
		Unfavorable	2,500	Sedge	10
				Switchgrass	15
				Western wheatgrass	5
				Rush	5

See footnotes at end of table.

TABLE 6.--RANGE PRODUCTIVITY AND CHARACTERIZING POTENTIAL VEGETATION--Continued

Soil name and map symbol	Range site name	Total production		Common plant name	Composition
		Kind of year	Dry weight		
			Lb/acre		Pct
Westplain:					
[1]128:					
Westplain part--	Salt meadow----------	Favorable	3,500	Inland saltgrass----------	15
		Normal	3,000	Alkali sacaton----------	50
		Unfavorable	2,500	Sedge----------	10
				Switchgrass----------	15
				Western wheatgrass----------	5
				Rush----------	5
Alda part--------	Salt meadow----------	Favorable	3,500	Inland saltgrass----------	15
		Normal	3,000	Alkali sacaton----------	50
		Unfavorable	2,500	Sedge----------	10
				Switchgrass----------	15
				Western wheatgrass----------	5
				Rush----------	5

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 7.--BUILDING SITE DEVELOPMENT

["Shrink-swell" and some of the other terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "slight," "moderate," and "severe." Absence of an entry means soil was not rated]

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Albinas:					
1	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.
Alda:					
2	Severe: wetness, cutbanks cave.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: frost action.
3	Severe: wetness, floods, cutbanks cave.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: floods, frost action.
Altvan:					
[1]4:					
Altvan part	Severe: cutbanks cave.	Moderate: low strength.	Moderate: shrink-swell.	Moderate: low strength, slope.	Moderate: shrink-swell, frost action, low strength.
Eckley part	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight.
[1]5:					
Altvan part	Severe: cutbanks cave.	Moderate: low strength.	Moderate: shrink-swell.	Moderate: low strength, slope.	Moderate: shrink-swell, frost action, low strength.
Eckley part	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight.
Aquolls:					
6	Severe: wetness, floods.	Severe: floods, wetness.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.
Argiustolls:					
7	Severe: wetness.	Moderate: wetness.	Severe: wetness.	Moderate: wetness.	Severe: wetness.
[1]8:					
Argiustolls part.					
Rock outcrop part.					
Arvada:					
9	Moderate: too clayey.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell.	Severe: shrink-swell, low strength.
Ascalon:					
10	Slight	Moderate: shrink-swell, low strength.	Moderate: shrink-swell.	Moderate: shrink-swell, low strength.	Moderate: frost action, low strength, shrink-swell.
11, 12	Slight	Moderate: shrink-swell, low strength.	Moderate: shrink-swell.	Moderate: slope, shrink-swell, low strength.	Moderate: frost action, low strength, shrink-swell.

See footnotes at end of table.

TABLE 7.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Badland: 13.					
Bankard: 14	Severe: cutbanks cave, floods.	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.
Bayard: [1]15:					
Bayard part	Slight	Slight	Slight	Moderate: slope.	Slight.
Canyon part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.
Bridgeport: 16	Slight	Moderate: low strength, shrink-swell.	Moderate: low strength, shrink-swell.	Moderate: low strength, shrink-swell.	Moderate: low strength, shrink-swell.
Canyon: 17	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.
Chappell: 18	Severe: cutbanks cave, floods.	Severe: floods.	Severe: floods.	Severe: floods.	Moderate: floods.
Colby: 19	Moderate: slope.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: low strength.
Dacono: 20	Severe: cutbanks cave.	Moderate: low strength, shrink-swell.	Moderate: shrink-swell.	Moderate: low strength, shrink-swell.	Severe: shrink-swell, low strength.
Dailey: 21	Severe: cutbanks cave.	Slight	Slight	Slight	Slight.
22	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight.
23	Moderate: too sandy.	Slight	Slight	Slight	Slight.
Dix: [1]24:					
Dix part	Severe: slope, small stones, cutbanks cave.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Altvan part	Severe: cutbanks cave.	Moderate: low strength, slope.	Moderate: shrink-swell, slope.	Severe: slope.	Moderate: shrink-swell, slope, frost action.
[1]25:					
Dix part	Severe: slope, small stones, cutbanks cave.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Eckley part	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.

See footnotes at end of table.

TABLE 7.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Els: 26	Severe: wetness, cutbanks cave.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Moderate: wetness, frost action, floods.
Epping: 27	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.
Fluvaquentic Haplaquolls: 28	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.
Fluvaquents: 29	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.
Glenberg: 30	Moderate: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Moderate: floods, low strength.
Gravel pits: 31.					
Haverson: 32, 33	Moderate: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Moderate: floods, low strength.
34, 35	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.
Haxtun: 36, 38	Slight	Moderate: low strength, shrink-swell.	Moderate: shrink-swell.	Moderate: low strength; shrink-swell.	Moderate: low strength, frost action.
37	Slight	Moderate: low strength, frost action, shrink-swell.	Moderate: low strength, shrink-swell.	Moderate: slope, low strength, shrink-swell.	Moderate: low strength, frost action.
Hayford: 39, 40	Severe: too clayey, wetness, cutbanks cave.	Severe: floods.	Severe: wetness, shrink-swell, floods.	Severe: floods.	Severe: shrink-swell.
Heldt: 41, 42	Severe: too clayey.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.
Iliff: 43	Severe: depth to rock.	Moderate: shrink-swell, low strength.	Severe: depth to rock, shrink-swell.	Moderate: shrink-swell, low strength.	Severe: shrink-swell.
Julesburg: 44, 46	Slight	Slight	Slight	Slight	Moderate: low strength, frost action.

See footnotes at end of table.

TABLE 7.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Julesburg:					
45, 47, 48	Slight	Slight	Slight	Moderate: slope.	Moderate: low strength, frost action.
[1]49:					
Julesburg part	Slight	Slight	Slight	Moderate: slope.	Moderate: low strength, frost action.
Eckley part	Severe: cutbanks cave.	Slight	Slight	Moderate: slope.	Slight.
Keith:					
50	Slight	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, frost action, low strength.
Kim:					
51	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: low strength, slope.	Moderate: low strength.
Kuma:					
52	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: low strength.	Moderate: low strength, frost action.
Kutch:					
53, 54	Severe: too clayey, depth to rock.	Severe: shrink-swell.	Severe: shrink-swell, depth to rock.	Severe: shrink-swell.	Severe: shrink-swell, low strength.
Lebsack:					
55, 56, 57	Moderate: too clayey.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.
Loveland:					
58	Severe: wetness, floods.	Severe: floods, wetness.	Severe: floods, wetness.	Severe: wetness, floods.	Severe: wetness, frost action, floods.
Manter:					
59, 61	Slight	Slight	Slight	Slight	Moderate: low strength, frost action.
60, 62, 63	Slight	Slight	Slight	Moderate: slope.	Moderate: low strength, frost action.
64	Moderate: wetness, cutbanks cave.	Slight	Moderate: wetness.	Slight	Moderate: low strength, frost action.
65	Severe: wetness, cutbanks cave.	Moderate: wetness.	Severe: wetness.	Moderate: wetness.	Moderate: wetness, low strength, frost action.
Manzanola:					
66	Moderate: too clayey.	Moderate: shrink-swell, low strength.	Severe: shrink-swell.	Moderate: shrink-swell, low strength.	Severe: shrink-swell, low strength.

See footnotes at end of table.

TABLE 7.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Midway:					
67	Severe: too clayey, depth to rock.	Severe: shrink-swell, low strength, depth to rock.	Severe: shrink-swell, low strength, depth to rock.	Severe: slope, shrink-swell, low strength.	Severe: shrink-swell, low strength.
Mitchell:					
68	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: low strength.	Moderate: low strength.
[1]69:					
Mitchell part	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: low strength.	Moderate: low strength.
Keota part	Severe: depth to rock.	Moderate: low strength.	Severe: depth to rock.	Moderate: low strength.	Moderate: low strength, depth to rock.
[1]70:					
Mitchell part	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: slope, low strength.	Moderate: low strength.
Keota part	Severe: depth to rock.	Moderate: low strength.	Severe: depth to rock.	Moderate: low strength, slope.	Moderate: low strength, depth to rock.
[1]71:					
Mitchell part	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: low strength.	Moderate: low strength.
Norka part	Slight	Moderate: low strength.	Moderate: low strength, shrink-swell.	Moderate: low strength.	Moderate: low strength, frost action, shrink-swell.
Mosher:					
72, 73	Moderate: too clayey, wetness.	Moderate: low strength.	Severe: shrink-swell, wetness.	Moderate: low strength.	Severe: shrink-swell, low strength.
Norka:					
74	Slight	Slight	Moderate: low strength, shrink-swell.	Moderate: low strength.	Moderate: low strength, frost action, shrink-swell.
[1]75:					
Norka part	Slight	Moderate: low strength.	Moderate: low strength, shrink-swell.	Moderate: low strength.	Moderate: low strength, frost action, shrink-swell.
Ulysses part	Slight	Moderate: low strength.	Moderate: shrink-swell, low strength.	Moderate: low strength.	Moderate: low strength, shrink-swell.
Nunn:					
76, 77, 78, 79, 80, 81	Moderate: too clayey.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.
82	Moderate: too clayey, wetness.	Severe: shrink-swell, low strength.	Severe: shrink-swell.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.
83	Severe: wetness.	Severe: shrink-swell, low strength.	Severe: shrink-swell, wetness.	Severe: shrink-swell, low strength.	Severe: shrink-swell, low strength.

See footnotes at end of table.

TABLE 7.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Olney:					
84, 85	Slight	Slight	Moderate: shrink-swell.	Moderate: slope.	Moderate: low strength, shrink-swell.
Peetz:					
86	Severe: slope, cutbanks cave, small stones.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Platner:					
87, 88, 89	Slight	Moderate: shrink-swell, low strength.	Severe: shrink-swell.	Moderate: shrink-swell, low strength.	Severe: shrink-swell, low strength.
90	Slight	Moderate: shrink-swell, low strength.	Severe: shrink-swell.	Moderate: shrink-swell, slope, low strength.	Severe: shrink-swell, low strength.
[1]91:					
Platner part	Slight	Moderate: shrink-swell, low strength.	Severe: shrink-swell.	Moderate: shrink-swell, low strength.	Severe: shrink-swell, low strength.
Rago part	Slight	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, frost action, low strength.
Dacono part	Severe: cutbanks cave.	Moderate: low strength, shrink-swell.	Moderate: shrink-swell.	Moderate: low strength, shrink-swell.	Severe: shrink-swell, low strength.
Rago:					
92, 93	Slight	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, low strength.	Moderate: shrink-swell, frost action, low strength.
Renohill:					
[1]94:					
Renohill part	Severe: depth to rock.	Moderate: low strength, shrink-swell.	Severe: depth to rock, shrink-swell.	Moderate: slope, low strength, shrink-swell.	Severe: low strength, shrink-swell.
Shingle part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.
Rock outcrop:					
[1]95:					
Rock outcrop part.					
Argiustolls part	Severe: depth to rock, slope.	Severe: slope.	Severe: slope, depth to rock.	Severe: slope.	Severe: slope.
Rosebud:					
[1]96, [1]97:					
Rosebud part	Severe: depth to rock.	Moderate: shrink-swell, depth to rock, low strength.	Severe: depth to rock.	Moderate: shrink-swell, slope, depth to rock.	Moderate: shrink-swell, frost action, low strength.
Escabosa part	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: slope, depth to rock.	Moderate: depth to rock, frost action, low strength.

See footnotes at end of table.

TABLE 7.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Rosebud:					
[1]98:					
Rosebud part	Severe: depth to rock.	Moderate: shrink-swell, depth to rock, low strength.	Severe: depth to rock.	Moderate: shrink-swell, depth to rock, low strength.	Moderate: shrink-swell, frost action, low strength.
Escabosa part	Severe: depth to rock.	Moderate: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Moderate: depth to rock, frost action, low strength.
Iliff part	Severe: depth to rock.	Moderate: shrink-swell, low strength, depth to rock.	Severe: depth to rock, shrink-swell.	Moderate: shrink-swell, low strength, depth to rock.	Severe: shrink-swell, low strength.
Satanta:					
99, 100, 101	Slight	Slight	Moderate: shrink-swell.	Slight	Moderate: shrink-swell, low strength.
102	Moderate: wetness.	Moderate: wetness.	Moderate: shrink-swell, wetness.	Moderate: wetness.	Moderate: frost action, low strength, shrink-swell.
103	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Moderate: wetness, frost action, low strength.
Shingle:					
104	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.
Stoneham:					
105, 106, 107	Slight	Slight	Moderate: shrink-swell.	Moderate: slope.	Moderate: low strength, shrink-swell.
[1]108:					
Stoneham part	Slight	Slight	Moderate: shrink-swell.	Moderate: slope.	Moderate: low strength, shrink-swell.
Cushman part	Severe: depth to rock.	Moderate: low strength, depth to rock.	Severe: depth to rock.	Moderate: slope, low strength, depth to rock.	Moderate: low strength, shrink-swell.
Thedalund:					
[1]109:					
Thedalund part	Severe: depth to rock, slope.	Moderate: low strength, slope, depth to rock.	Severe: depth to rock.	Severe: slope.	Moderate: low strength, slope.
Kim part	Moderate: slope.	Moderate: low strength, slope.	Moderate: low strength, slope.	Severe: slope.	Moderate: low strength, slope.
Shingle part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.
Ulysses:					
[1]110:					
Ulysses part	Slight	Moderate: low strength.	Moderate: shrink-swell, low strength.	Moderate: low strength.	Moderate: low strength, shrink-swell.

See footnotes at end of table.

TABLE 7.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Ulysses:					
Norka part	Slight	Moderate: low strength.	Moderate: low strength, shrink-swell.	Moderate: low strength, slope.	Moderate: low strength, frost action, shrink-swell.
[1]111:					
Ulysses part	Slight	Moderate: low strength.	Moderate: shrink-swell, low strength.	Moderate: low strength.	Moderate: low strength, shrink-swell.
Norka part	Slight	Moderate: low strength.	Moderate: low strength, shrink-swell.	Moderate: low strength, slope.	Moderate: low strength, frost action, shrink-swell.
Colby part	Slight	Slight	Slight	Moderate: slope.	Moderate: low strength.
Ustic Torriorthents:					
112	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Valent:					
113	Severe: cutbanks cave.	Slight	Slight	Slight	Slight.
114	Severe: slope, cutbanks cave.	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
115	Severe: cutbanks cave.	Moderate: slope.	Moderate: slope.	Severe: slope.	Moderate: slope.
Vona:					
116, 117	Slight	Slight	Slight	Moderate: slope.	Moderate: low strength.
Wages:					
118	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: low strength.	Moderate: low strength, frost action, shrink-swell.
119, 120	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: slope, low strength.	Moderate: low strength, frost action, shrink-swell.
[1]121:					
Wages part	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: slope, low strength.	Moderate: low strength, frost action, shrink-swell.
Altvan part	Severe: cutbanks cave.	Moderate: low strength.	Moderate: shrink-swell.	Moderate: low strength, slope.	Moderate: shrink-swell, frost action, low strength.
[1]122:					
Wages part	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: slope, low strength.	Moderate: low strength, frost action, shrink-swell.
Manter part	Slight	Slight	Slight	Moderate: slope.	Moderate: low strength, frost action.

See footnotes at end of table.

TABLE 7.--BUILDING SITE DEVELOPMENT--Continued

Soil name and map symbol	Shallow excavations	Dwellings without basements	Dwellings with basements	Small commercial buildings	Local roads and streets
Wages:					
[1]123, [1]124:					
Wages part	Slight	Moderate: low strength.	Moderate: low strength.	Moderate: slope, low strength.	Moderate: low strength, frost action, shrink-swell.
Rosebud part	Severe: depth to rock.	Moderate: shrink-swell, depth to rock, low strength.	Severe: depth to rock.	Moderate: shrink-swell, slope, depth to rock.	Moderate: shrink-swell, frost action, low strength.
Weld:					
125, 126	Slight	Moderate: low strength.	Severe: shrink-swell.	Moderate: low strength.	Severe: low strength, shrink-swell.
Westplain:					
127	Severe: wetness, floods, cutbanks cave.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods, frost action.
[1]128:					
Westplain part	Severe: wetness, floods, cutbanks cave.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods, frost action.
Alda part	Severe: wetness, floods, cutbanks cave.	Severe: floods, wetness.	Severe: wetness, floods.	Severe: floods, wetness.	Severe: floods, frost action.

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 8.--SANITARY FACILITIES

["Seepage" and some of the other terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "slight," "moderate," "good," "fair," and other terms used to rate soils. Absence of an entry means soil was not rated]

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
Albinas:					
1	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Good.
Alda:					
2	Severe: wetness.	Severe: wetness, seepage.	Severe: wetness, seepage.	Severe: wetness, seepage.	Good.
3	Severe: floods, wetness.	Severe: floods, wetness, seepage.	Severe: floods, wetness, seepage.	Severe: floods, wetness, seepage.	Good.
Altvan:					
[1]4:					
Altvan part	Moderate:[2] percs slowly.	Severe: seepage.	Severe: seepage.	Severe: seepage.	Fair: small stones.
Eckley part	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Fair: small stones.
[1]5:					
Altvan part	Moderate:[2] percs slowly.	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Fair: small stones.
Eckley part	Slight	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Fair: small stones.
Aquolls:					
6	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Poor: wetness.
Argiustolls:					
7	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Poor: wetness.
[1]8:					
Argiustolls part.					
Rock outcrop part.					
Arvada:					
9	Severe: percs slowly.	Slight	Moderate: too clayey.	Slight	Fair: too clayey.
Ascalon:					
10, 11	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Good.
12	Slight	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Good.
Badland:					
13	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	
Bankard:					
14	Severe: floods.	Severe: floods, seepage.	Severe: floods, seepage.	Severe: floods, seepage.	Poor: too sandy.

See footnotes at end of table.

TABLE 8.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
Bayard:					
[1]15:					
Bayard part	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Good.
Canyon part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Poor: thin layer, area reclaim.
Bridgeport:					
16	Moderate: percs slowly.	Moderate: seepage.	Slight	Slight	Good.
Canyon:					
17	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Moderate: slope.	Poor: thin layer, area reclaim.
Chappell:					
18	Severe: floods.	Severe: seepage, floods.	Severe: seepage, floods.	Severe: seepage, floods.	Fair: small stones, area reclaim.
Colby:					
19	Moderate: slope.	Severe: slope.	Slight	Moderate: slope.	Fair: slope.
Dacono:					
20	Severe:[2] percs slowly.	Severe: seepage.	Severe: seepage.	Severe: seepage.	Fair: too clayey.
Dailey:					
21, 22	Slight	Severe: seepage.	Severe: too sandy, seepage.	Severe: seepage.	Poor: seepage, too sandy.
23	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Fair: too sandy.
Dix:					
[1]24:					
Dix part	Severe: slope.	Severe: seepage, slope.	Severe: seepage, too sandy.	Severe: seepage, slope.	Poor: slope, too sandy, small stones.
Altvan part	Moderate:[2] slope, percs slowly.	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Fair: small stones, slope.
[1]25:					
Dix part	Severe: slope.	Severe: seepage, slope.	Severe: seepage, too sandy.	Severe: seepage, slope.	Poor: slope, too sandy, small stones.
Eckley part	Moderate: slope.	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Fair: slope, small stones.
Els:					
26	Severe: wetness, floods.	Severe: seepage, wetness, floods.	Severe: seepage, wetness, floods.	Severe: seepage, wetness, floods.	Poor: too sandy.
Epping:					
27	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Poor: thin layer, area reclaim.

See footnotes at end of table.

TABLE 8.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
Fluvaquentic Haplaquolls:					
28	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Poor: wetness.
Fluvaquents:					
29	Severe: wetness, floods.	Severe: wetness, floods, seepage.	Severe: wetness, floods, seepage.	Severe: wetness, floods.	Poor: wetness, too sandy.
Glenberg:					
30	Severe: floods.	Severe: floods, seepage.	Severe: seepage, floods.	Severe: seepage, floods.	Good.
Gravel pits:					
31.					
Haverson:					
32, 33	Moderate: floods, percs slowly.	Severe: floods.	Moderate: floods.	Moderate: floods.	Good.
34, 35	Severe: floods.	Severe: floods.	Severe: floods.	Severe: floods.	Good.
Haxtun:					
36	Slight	Moderate: seepage.	Slight	Slight	Good.
37	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
38	Slight	Moderate: seepage.	Slight	Slight	Good.
Hayford:					
39, 40	Severe: percs slowly, wetness.	Severe: wetness, floods, seepage.	Severe: seepage, wetness.	Severe: seepage.	Fair: too clayey.
Heldt:					
41, 42	Severe: percs slowly.	Slight	Severe: too clayey.	Slight	Poor: too clayey.
Iliff:					
43	Severe: depth to rock, percs slowly.	Severe: depth to rock.	Severe: depth to rock.	Slight	Fair: too clayey, thin layer, area reclaim.
Julesburg:					
44, 45, 46, 47, 48	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Good.
[1]49:					
Julesburg part	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Good.
Eckley part	Slight	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Fair: small stones.
Keith:					
50	Slight	Moderate: seepage.	Slight	Slight	Good.

See footnotes at end of table.

TABLE 8.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
Kim:					
51	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
Kuma:					
52	Moderate: percs slowly.	Moderate: seepage.	Slight	Slight	Good.
Kutch:					
53, 54	Severe: depth to rock, percs slowly.	Severe: depth to rock.	Severe: depth to rock, too clayey.	Slight	Poor: too clayey, area reclaim.
Lebsack:					
55	Severe: percs slowly.	Slight	Severe: too clayey.	Slight	Poor: too clayey.
56, 57	Severe: percs slowly, wetness.	Moderate: wetness.	Severe: too clayey, wetness.	Moderate: wetness.	Poor: too clayey.
Loveland:					
58	Severe: wetness, floods.	Severe: wetness, floods, seepage.	Severe: wetness, floods, seepage.	Severe: wetness, floods, seepage.	Poor: wetness.
Manter:					
59, 60, 61, 62	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Good.
63	Slight	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Good.
64	Severe: wetness.	Severe: seepage.	Severe: wetness, seepage.	Severe: seepage.	Good.
65	Severe: wetness.	Severe: seepage, wetness.	Severe: seepage, wetness.	Severe: seepage, wetness.	Poor: wetness.
Manzanola:					
66	Severe: percs slowly.	Slight	Moderate: too clayey.	Slight	Fair: too clayey.
Midway:					
67	Severe: percs slowly, depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock, too clayey.	Moderate: slope.	Poor: too clayey, thin layer, area reclaim.
Mitchell:					
68	Slight	Moderate: seepage.	Slight	Slight	Good.
[1]69:					
Mitchell part	Slight	Moderate: seepage.	Slight	Slight	Good.
Keota part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Fair: thin layer, slope, area reclaim.

See footnotes at end of table.

TABLE 8.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
[1]70:					
Mitchell part	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
Keota part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Fair: thin layer, slope, area reclaim.
[1]71:					
Mitchell part	Slight	Moderate: seepage.	Slight	Slight	Good.
Norka part	Moderate: percs slowly.	Moderate: seepage.	Slight	Slight	Good.
Mosher:					
72, 73	Severe: percs slowly, wetness.	Severe: seepage, wetness.	Severe: too clayey, seepage, wetness.	Severe: seepage.	Poor: too clayey.
Norka:					
74	Moderate: percs slowly.	Moderate: seepage.	Slight	Slight	Good.
[1]75:					
Norka part	Moderate: percs slowly.	Moderate: seepage, slope.	Slight	Slight	Good.
Ulysses part	Slight	Moderate: seepage.	Slight	Slight	Good.
Nunn:					
76	Severe: percs slowly.	Slight	Slight	Slight	Fair: too clayey.
77, 78, 80, 81	Severe: percs slowly.	Moderate: slope.	Slight	Slight	Fair: too clayey.
79	Severe: percs slowly.	Severe: slope.	Slight	Slight	Fair: too clayey.
82	Severe: percs slowly.	Moderate: wetness.	Severe: wetness.	Moderate: wetness.	Fair: too clayey.
83	Severe: percs slowly, wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Poor: wetness.
Olney:					
84	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Good.
85	Slight	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Good.
Peetz:					
86	Severe: slope.	Severe: slope, seepage.	Severe: seepage, too sandy.	Severe: slope, seepage.	Poor: slope, small stones, seepage.
Platner:					
87, 88, 89, 90	Severe:[2] percs slowly.	Severe: seepage.	Severe: seepage.	Severe: seepage.	Fair: too clayey.

See footnotes at end of table.

TABLE 8.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
[1]91:					
Platner part	Severe:[2] percs slowly.	Severe: seepage.	Severe: seepage.	Severe: seepage.	Fair: too clayey.
Rago part	Severe: percs slowly.	Moderate: seepage.	Slight	Slight	Fair: too clayey.
Dacono part	Severe:[2] percs slowly.	Severe: seepage.	Severe: seepage.	Severe: seepage.	Fair: too clayey, small stones.
Rago:					
92, 93	Severe: percs slowly.	Moderate: seepage.	Slight	Slight	Fair: too clayey.
Renohill:					
[1]94:					
Renohill part	Severe: percs slowly, depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Fair: too clayey, thin layer, area reclaim.
Shingle part	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Slight	Poor: thin layer, area reclaim.
Rock outcrop:					
[1]95:					
Rock outcrop part.					
Argiustolls part	Severe: slope, depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Severe: slope.	Poor: slope, area reclaim.
Rosebud:					
[1]96:					
Rosebud part	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Slight	Fair: thin layer, area reclaim.
Escabosa part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Fair: thin layer, area reclaim.
[1]97:					
Rosebud part	Severe: depth to rock.	Severe: depth to rock, slope.	Moderate: depth to rock.	Slight	Fair: thin layer, area reclaim.
Escabosa part	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Slight	Fair: thin layer, area reclaim.
[1]98:					
Rosebud part	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Slight	Fair: thin layer, area reclaim.
Escabosa part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Fair: thin layer, area reclaim.
Iliff part	Severe: depth to rock, percs slowly.	Severe: depth to rock.	Severe: depth to rock.	Slight	Fair: too clayey, thin layer, area reclaim.
Satanta:					
99	Slight	Moderate: seepage.	Slight	Slight	Good.

See footnotes at end of table.

TABLE 8.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
Satanta:					
100, 101	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
102	Severe: wetness.	Moderate: wetness, seepage.	Severe: wetness.	Moderate: wetness.	Good.
103	Severe: wetness.	Severe: wetness.	Severe: wetness.	Severe: wetness.	Poor: wetness.
Shingle:					
104	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Poor: thin layer, area reclaim.
Stoneham:					
105, 106	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
107	Slight	Severe: slope.	Slight	Slight	Good.
[1]108:					
Stoneham part	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
Cushman part	Severe: depth to rock.	Severe: depth to rock.	Severe: depth to rock.	Slight	Fair: area reclaim, thin layer.
Thedalund:					
[1]109:					
Thedalund part	Severe: depth to rock.	Severe: depth to rock, slope.	Severe: depth to rock.	Moderate: slope.	Fair: thin layer, slope, area reclaim.
Kim part	Moderate: slope.	Severe: slope.	Slight	Moderate: slope.	Fair: slope.
Shingle part	Severe: depth to rock.	Severe: slope, depth to rock.	Severe: depth to rock.	Moderate: slope.	Poor: thin layer, area reclaim.
Ulysses:					
[1]110:					
Ulysses part	Slight	Moderate: seepage.	Slight	Slight	Good.
Norka part	Moderate: percs slowly.	Moderate: seepage, slope.	Slight	Slight	Good.
[1]111:					
Ulysses part	Slight	Moderate: seepage.	Slight	Slight	Good.
Norka part	Moderate: percs slowly.	Moderate: seepage, slope.	Slight	Slight	Good.
Colby part	Slight	Moderate: seepage.	Slight	Slight	Good.
Ustic Torriorthents:					
112	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.	Poor: slope.

See footnotes at end of table.

TABLE 8.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
Valent:					
113	Slight	Severe: seepage.	Severe: too sandy, seepage.	Severe: seepage.	Poor: too sandy.
114	Severe: slope.	Severe: seepage, slope.	Severe: too sandy, slope, seepage.	Severe: slope, seepage.	Poor: too sandy, slope.
115	Moderate: slope.	Severe: seepage, slope.	Severe: too sandy, seepage.	Severe: seepage.	Poor: too sandy.
Vona:					
116, 117	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Fair: too sandy.
Wages:					
118	Slight	Moderate: seepage.	Slight	Slight	Good.
119	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
120	Slight	Severe: slope.	Slight	Slight	Good.
[1]121:					
Wages part	Slight	Severe: slope.	Slight	Slight	Good.
Altvan part	Moderate:[2] percs slowly.	Severe: slope, seepage.	Severe: seepage.	Severe: seepage.	Fair: small stones.
[1]122:					
Wages part	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
Manter part	Slight	Severe: seepage.	Severe: seepage.	Severe: seepage.	Good.
[1]123:					
Wages part	Slight	Moderate: seepage, slope.	Slight	Slight	Good.
Rosebud part	Severe: depth to rock.	Severe: depth to rock.	Moderate: depth to rock.	Slight	Fair: thin layer, area reclaim.
[1]124:					
Wages part	Slight	Severe: slope.	Slight	Slight	Good.
Rosebud part	Severe: depth to rock.	Severe: depth to rock, slope.	Moderate: depth to rock.	Slight	Fair: thin layer, area reclaim.
Weld:					
125	Moderate: percs slowly.	Moderate: seepage.	Slight	Slight	Good.
126	Moderate: percs slowly.	Moderate: slope, seepage.	Slight	Slight	Good.

See footnotes at end of table.

TABLE 8.--SANITARY FACILITIES--Continued

Soil name and map symbol	Septic tank absorption fields	Sewage lagoon areas	Trench sanitary landfill	Area sanitary landfill	Daily cover for landfill
Westplain:					
127	Severe: wetness, floods.	Severe: wetness, floods, seepage.	Severe: wetness, floods, seepage.	Severe: wetness, floods, seepage.	Poor: wetness.
[1]128:					
Westplain part	Severe: wetness, floods.	Severe: wetness, floods, seepage.	Severe: wetness, floods, seepage.	Severe: wetness, floods, seepage.	Poor: wetness.
Alda part	Severe: floods, wetness.	Severe: floods, wetness, seepage.	Severe: floods, wetness, seepage.	Severe: floods, wetness, seepage.	Fair: too sandy.

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

[2]Rate slight if absorption field is placed in underlying sandy or gravelly materials.

TABLE 9.--CONSTRUCTION MATERIALS

["Shrink-swell" and some of the other terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "good," "fair," and "poor." Absence of an entry means soil was not rated]

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
Albinas:				
1	Fair: low strength.	Unsuited	Unsuited	Fair: too clayey.
Alda:				
2, 3	Poor: wetness, frost action.	Good	Good	Good.
Altvan:				
[1]4:				
Altvan part	Good	Fair: excess fines.	Unsuited	Fair: too clayey.
Eckley part	Good	Fair: excess fines.	Fair: excess fines.	Fair: too clayey.
[1]5:				
Altvan part	Good	Fair: excess fines.	Unsuited	Fair: too clayey.
Eckley part	Good	Fair: excess fines.	Fair: excess fines.	Fair: too clayey.
Aquolls:				
6	Poor: wetness.			Poor: wetness.
Argiustolls:				
7	Poor: wetness.			Poor: wetness.
[1]8:				
Argiustolls part.				
Rock outcrop part.				
Arvada:				
9	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: too clayey, excess sodium.
Ascalon:				
10, 11, 12	Fair: low strength, frost action, shrink-swell.	Unsuited	Unsuited	Good.
Badland:				
13.				
Bankard:				
14	Fair: low strength.	Fair: excess fines.	Unsuited	Poor: too sandy.
Bayard:				
[1]15:				
Bayard part	Good	Unsuited	Unsuited	Good.
Canyon part	Poor: thin layer, area reclaim.	Unsuited	Unsuited	Poor: area reclaim.
Bridgeport:				
16	Fair: low strength, frost action.	Unsuited	Unsuited	Good.

See footnotes at end of table.

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
Canyon:				
17	Poor: thin layer, area reclaim.	Unsuited	Unsuited	Poor: area reclaim.
Chappell:				
18	Good	Good	Good	Good.
Colby:				
19	Fair: low strength.	Unsuited	Unsuited	Fair: slope.
Dacono:				
20	Good	Good	Good	Fair: thin layer.
Dailey:				
21, 22	Good	Fair: excess fines.	Unsuited	Poor: too sandy.
23	Good	Poor: excess fines.	Unsuited	Poor: too sandy.
Dix:				
[1]24:				
Dix part	Fair: slope.	Good	Good	Poor: small stones, area reclaim, slope.
Altvan part	Good	Good	Unsuited	Fair: thin layer, slope, small stones.
[1]25:				
Dix part	Fair: slope.	Good	Good	Poor: small stones, area reclaim, slope.
Eckley part	Good	Fair: excess fines.	Fair: excess fines.	Fair: slope, small stones.
Els:				
26	Fair: wetness, frost action.	Fair: excess fines.	Unsuited	Poor: too sandy.
Epping:				
27	Poor: thin layer.	Unsuited	Unsuited	Poor: thin layer, area reclaim.
Fluvaquentic Haplaquolls:				
28	Poor: wetness.			Poor: wetness.
Fluvaquents:				
29	Poor: wetness.			Poor: wetness.
Glenberg:				
30	Fair: low strength.	Poor: excess fines.	Unsuited	Good.
Gravel pits:				
31.				

See footnotes at end of table.

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
Haverson:				
32, 33, 34	Fair: low strength.	Unsuited	Unsuited	Good.
35	Fair: low strength.	Unsuited	Unsuited	Fair: excess salt.
Haxtun:				
36, 37, 38	Fair: low strength, frost action.	Unsuited	Unsuited	Good.
Hayford:				
39	Fair: wetness, frost action.	Fair: excess fines.	Unsuited	Poor: too clayey.
40	Fair: wetness, frost action.	Fair: excess fines.	Unsuited	Poor: too clayey, excess salt.
Heldt:				
41, 42	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: too clayey.
Iliff:				
43	Poor: thin layer, low strength.	Unsuited	Unsuited	Poor: too clayey.
Julesburg:				
44, 45	Fair: low strength, frost action.	Poor: excess fines.	Unsuited	Fair: too sandy.
46, 47, 48	Fair: low strength, frost action.	Poor: excess fines.	Unsuited	Good.
[1]49:				
Julesburg part	Fair: low strength, frost action.	Poor: excess fines.	Unsuited	Good.
Eckley part	Good	Fair: excess fines.	Fair: excess fines.	Poor: small stones.
Keith:				
50	Fair: shrink-swell, low strength.	Unsuited	Unsuited	Good.
Kim:				
51	Fair: low strength.	Unsuited	Unsuited	Fair: too clayey.
Kuma:				
52	Fair: low strength, frost action.	Unsuited	Unsuited	Fair: too clayey.
Kutch:				
53, 54	Poor: low strength, shrink-swell, thin layer.	Unsuited	Unsuited	Poor: thin layer, too clayey.
Lebsack:				
55	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: too clayey.

See footnotes at end of table.

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
Lebsack:				
56	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: excess salt, excess sodium, too clayey.
57	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: too clayey.
Loveland:				
58	Poor: wetness, frost action.	Good	Good	Fair: too clayey, wetness.
Manter:				
59, 60	Fair: low strength, frost action.	Poor: excess fines.	Unsuited	Fair: too sandy.
61, 62, 63, 64, 65	Fair: low strength, frost action.	Poor: excess fines.	Unsuited	Good.
Manzanola:				
66	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: too clayey.
Midway:				
67	Poor: shrink-swell, low strength, thin layer.	Unsuited	Unsuited	Poor: too clayey, area reclaim.
Mitchell:				
68	Fair: low strength.	Unsuited	Unsuited	Good.
[1]69:				
Mitchell part	Fair: low strength.	Unsuited	Unsuited	Good.
Keota part	Poor: thin layer.	Unsuited	Unsuited	Good.
[1]70:				
Mitchell part	Fair: low strength.	Unsuited	Unsuited	Good.
Keota part	Poor: thin layer.	Unsuited	Unsuited	Good.
[1]71:				
Mitchell part	Fair: low strength.	Unsuited	Unsuited	Good.
Norka part	Fair: low strength, frost action.	Unsuited	Unsuited	Fair: too clayey.
Mosher:				
72, 73	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: excess salt, area reclaim.
Norka:				
74	Fair: low strength, frost action.	Unsuited	Unsuited	Good.

See footnotes at end of table.

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
Norka:				
[1]75:				
Norka part	Fair: low strength, frost action.	Unsuited	Unsuited	Fair: too clayey.
Ulysses part	Fair: low strength.	Unsuited	Unsuited	Good.
Nunn:				
76, 77, 78, 79	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Fair: too clayey.
80, 81	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: too clayey.
82, 83	Poor: shrink-swell, low strength.	Unsuited	Unsuited	Poor: too clayey.
Olney:				
84, 85	Fair: low strength.	Unsuited	Unsuited	Fair: too clayey.
Peetz:				
86	Fair: slope.	Good	Good	Poor: slope, small stones.
Platner:				
87, 88, 89, 90	Fair: low strength, shrink-swell.	Unsuited	Unsuited	Fair: too clayey.
[1]91:				
Platner part	Fair: low strength, shrink-swell.	Unsuited	Unsuited	Fair: too clayey.
Rago part	Fair: shrink-swell, low strength, frost action.	Unsuited	Unsuited	Fair: too clayey.
Dacono part	Good	Good	Good	Fair: too clayey.
Rago:				
92	Fair: shrink-swell, low strength, frost action.	Unsuited	Unsuited	Fair: too clayey.
93	Fair: shrink-swell, low strength, frost action.	Unsuited	Unsuited	Poor: too clayey.
Renohill:				
[1]94:				
Renohill part	Poor: low strength, thin layer.	Unsuited	Unsuited	Poor: too clayey.
Shingle part	Poor: thin layer.	Unsuited	Unsuited	Poor: area reclaim.

See footnotes at end of table.

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
Rock outcrop:				
[1]95:				
Rock outcrop part.				
Argiustolls part	Poor: thin layer.			
Rosebud:				
[1]96:				
Rosebud part	Poor: thin layer.	Unsuited	Unsuited	Fair: area reclaim, too clayey.
Escabosa part	Poor: thin layer.	Unsuited	Unsuited	Fair: too clayey, area reclaim, small stones.
[1]97:				
Rosebud part	Poor: thin layer.	Unsuited	Unsuited	Fair: area reclaim, too clayey.
Escabosa part	Poor: thin layer.	Unsuited	Unsuited	Fair: too clayey, area reclaim, small stones.
[1]98:				
Rosebud part	Poor: thin layer.	Unsuited	Unsuited	Fair: area reclaim, too clayey.
Escabosa part	Poor: thin layer.	Unsuited	Unsuited	Fair: too clayey, area reclaim, small stones.
Iliff part	Poor: thin layer. low strength.	Unsuited	Unsuited	Fair: too clayey, small stones.
Satanta:				
99, 100, 101	Fair: shrink-swell, low strength.	Unsuited	Unsuited	Fair: too clayey.
102	Fair: low strength, frost action.	Unsuited	Unsuited	Fair: excess salt, too clayey.
103	Fair: low strength, frost action, wetness.	Unsuited	Unsuited	Fair: excess salt, too clayey.
Shingle:				
104	Poor: thin layer.	Unsuited	Unsuited	Poor: area reclaim.
Stoneham:				
105, 106, 107	Fair: low strength.	Unsuited	Unsuited	Fair: too clayey.
[1]108:				
Stoneham part	Fair: low strength.	Unsuited	Unsuited	Fair: too clayey.
Cushman part	Poor: thin layer.	Unsuited	Unsuited	Fair: too clayey.

See footnotes at end of table.

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
Thedalund:				
[1]109:				
Thedalund part	Poor: thin layer.	Unsuited	Unsuited	Fair: slope.
Kim part	Fair: low strength.	Unsuited	Unsuited	Fair: slope.
Shingle part	Poor: thin layer.	Unsuited	Unsuited	Poor: area reclaim.
Ulysses:				
[1]110:				
Ulysses part	Fair: low strength.	Unsuited	Unsuited	Fair: too clayey.
Norka part	Fair: low strength, frost action.	Unsuited	Unsuited	Fair: too clayey.
[1]111:				
Ulysses part	Fair: low strength.	Unsuited	Unsuited	Fair: too clayey.
Norka part	Fair: low strength, frost action.	Unsuited	Unsuited	Fair: too clayey.
Colby part	Fair: low strength.	Unsuited	Unsuited	Good.
Ustic Torriorthents:				
112	Poor: slope.			Poor: slope.
Valent:				
113, 115	Good	Fair: excess fines.	Unsuited	Poor: too sandy.
114	Poor: slope.	Fair: excess fines.	Unsuited	Poor: too sandy, slope.
Vona:				
116, 117	Good	Poor: excess fines.	Unsuited	Good.
Wages:				
118, 119, 120	Fair: low strength, frost action, shrink-swell.	Unsuited	Unsuited	Fair: too clayey.
[1]121:				
Wages part	Fair: low strength, frost action, shrink-swell.	Unsuited	Unsuited	Fair: too clayey.
Altvan part	Good	Fair: excess fines.	Unsuited	Fair: too clayey.
[1]122:				
Wages part	Fair: low strength, frost action, shrink-swell.	Unsuited	Unsuited	Fair: too clayey.

See footnotes at end of table.

TABLE 9.--CONSTRUCTION MATERIALS--Continued

Soil name and map symbol	Roadfill	Sand	Gravel	Topsoil
Wages:				
Manter part	Fair: low strength, frost action.	Poor: excess fines.	Unsuited	Good.
[1]123:				
Wages part	Fair: low strength, frost action, shrink-swell.	Unsuited	Unsuited	Fair: too clayey.
Rosebud part	Poor: shrink-swell, thin layer.	Unsuited	Unsuited	Fair: area reclaim, too clayey.
[1]124:				
Wages part	Fair: low strength, frost action, shrink-swell.	Unsuited	Unsuited	Fair: too clayey.
Rosebud part	Fair: shrink-swell, thin layer.	Unsuited	Unsuited	Fair: area reclaim, too clayey.
Weld:				
125, 126	Fair: low strength, shrink-swell, frost action.	Unsuited	Unsuited	Poor: too clayey.
Westplain:				
127	Poor: wetness, frost action.	Good	Good	Poor: wetness.
[1]128:				
Westplain part	Poor: wetness, frost action.	Good	Good	Poor: wetness.
Alda part	Poor: wetness, frost action.	Fair: excess fines.	Poor: excess fines.	Fair: wetness.

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 10.--WATER MANAGEMENT

["Seepage" and some of the other terms that describe restrictive soil features are defined in the Glossary. Absence of an entry means soil was not evaluated]

Soil name and map symbol	Features affecting-- Pond reservoir areas	Embankments, dikes, and levees	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Albinas:						
1	Seepage	Low strength, piping.	Floods	Floods	Favorable	Favorable.
Alda:						
2	Seepage	Seepage, piping.	Poor outlets, wetness.	Wetness, seepage.	Small stones	Wetness, droughty.
3	Seepage.	Seepage, piping.	Poor outlets, wetness, floods.	Wetness, seepage, floods.	Small stones	Small stones, droughty.
Altvan:						
[1]4:						
Altvan part	Seepage	Seepage, piping.	Slope	Slope, droughty.	Small stones	Droughty.
Eckley part	Seepage	Seepage, piping.	Slope	Droughty, slope.	Small stones	Droughty.
[1]5:						
Altvan part	Seepage, slope.	Seepage, piping.	Slope	Slope, droughty.	Small stones	Droughty.
Eckley part	Seepage, slope.	Seepage, piping.	Slope	Droughty, slope.	Small stones	Droughty.
Aquolls:						
6			Wetness, floods.	Wetness, floods.	Wetness	Wetness.
Argiustolls:						
7			Wetness, slope.	Wetness, slope.	Wetness	Wetness.
[1]8:						
Argiustolls part.						
Rock outcrop part.						
Arvada:						
9	Favorable	Low strength, shrink-swell, compressible.	Percs slowly, excess sodium.	Percs slowly, excess sodium.	Percs slowly	Percs slowly, excess sodium.
Ascalon:						
10, 11, 12	Seepage, slope.	Piping, low strength.	Slope	Slope, erodes easily.	Erodes easily, piping, slope.	Erodes easily, slope.
Badland:						
13.						
Bankard:						
14	Seepage	Piping, seepage.	Cutbanks cave, floods, poor outlets.	Droughty, floods, seepage.	Erodes easily, piping.	Droughty, erodes easily.
Bayard:						
[1]15:						
Bayard part	Seepage	Piping	Favorable	Slope, erodes easily.	Slope, erodes easily.	Slope, erodes easily.

See footnotes at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbol	Features affecting-- Pond reservoir areas	Embankments, dikes, and levees	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Bayard:						
[1]15:						
Canyon part	Depth to rock, slope.	Thin layer, piping.	Depth to rock, slope.	Rooting depth, slope.	Depth to rock, slope.	Droughty, slope, rooting depth.
Bridgeport:						
16	Seepage	Low strength, piping.	Favorable	Favorable	Favorable	Favorable.
Canyon:						
17	Depth to rock, slope.	Thin layer, piping.	Depth to rock, slope.	Rooting depth, slope.	Depth to rock, slope.	Droughty, slope, rooting depth.
Chappell:						
18	Seepage	Piping, seepage.	Floods	Fast intake, droughty, floods.	Erodes easily, floods.	Erodes easily, droughty.
Colby:						
19	Seepage	Low strength, piping.	Slope	Slope, erodes easily.	Slope	Slope, erodes easily.
Dacono:						
20	Seepage	Seepage, piping.	Slope, percs slowly.	Droughty, slope.	Small stones	Droughty.
Dailey:						
21, 22	Seepage, slope.	Piping, seepage.	Slope, cutbanks cave.	Complex slope, soil blowing, droughty.	Complex slope, too sandy, soil blowing.	Soil blowing, droughty.
23	Seepage	Piping	Cutbanks cave	Droughty, soil blowing.	Too sandy, soil blowing.	Soil blowing, droughty.
Dix:						
[1]24:						
Dix part	Seepage, slope.	Seepage	Slope	Slope, droughty, seepage.	Complex slope, too sandy, small stones.	Droughty, slope.
Altvan part	Seepage, slope.	Seepage, piping.	Slope	Slope, droughty.	Small stones, slope.	Droughty, slope.
[1]25:						
Dix part	Seepage, slope.	Seepage	Slope	Slope, droughty, seepage.	Complex slope, too sandy, small stones.	Droughty, slope.
Eckley part	Seepage, slope.	Seepage, piping.	Slope	Droughty, slope, seepage.	Slope, erodes easily, small stones.	Droughty, erodes easily, slope.
Els:						
26	Seepage	Seepage, piping.	Poor outlets, floods, wetness.	Floods, seepage, wetness.	Too sandy, wetness.	Droughty, wetness.
Epping:						
27	Depth to rock, slope.	Thin layer, piping.	Depth to rock, slope.	Rooting depth, slope.	Depth to rock, erodes easily.	Rooting depth.
Fluvaquentic Haplaquolls:						
28			Floods	Floods, wetness.	Wetness	Wetness.

See footnotes at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbol	Features affecting-- Pond reservoir areas	Embankments, dikes, and levees	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Fluvaquents:						
29	Seepage	Seepage	Floods, poor outlets, wetness.	Wetness, floods.	Wetness	Wetness.
Glenberg:						
30	Seepage	Piping	Floods	Floods, droughty.	Floods, piping.	Droughty.
Gravel pits:						
31.						
Haverson:						
32	Seepage	Low strength, piping.	Favorable	Favorable	Piping	Favorable.
33	Seepage	Low strength, piping.	Slope	Slope	Piping	Favorable.
34	Seepage	Low strength, piping.	Floods	Floods,	Floods, piping.	Floods.
35	Seepage	Low strength, piping.	Floods	Floods, excess salt.	Floods, piping.	Floods, excess salt.
Haxtun:						
36, 37, 38	Seepage	Low strength, piping.	Slope	Slope, erodes easily.	Erodes easily	Erodes easily.
Hayford:						
39, 40	Seepage	Compressible, low strength, shrink-swell.	Wetness	Wetness, percs slowly.	Percs slowly, wetness.	Wetness, percs slowly.
Heldt:						
41, 42	Favorable	Low strength, shrink-swell, compressible.	Percs slowly	Percs slowly	Percs slowly	Percs slowly.
Iliff:						
43	Depth to rock	Thin layer, low strength, piping.	Percs slowly, depth to rock, slope.	Percs slowly, slope, rooting depth.	Percs slowly, depth to rock.	Percs slowly.
Julesburg:						
44	Seepage	Seepage, piping, low strength.	Slope	Droughty, soil blowing, erodes easily.	Soil blowing, piping.	Erodes easily, droughty.
45	Seepage, slope.	Seepage, piping, low strength.	Slope	Droughty, slope, soil blowing.	Soil blowing, piping.	Erodes easily, slope, droughty.
46, 47	Seepage	Seepage, piping, low strength.	Slope	Droughty, slope, erodes easily.	Soil blowing, piping.	Erodes easily, droughty.
48	Seepage, slope.	Seepage, piping, low strength.	Slope	Droughty, slope, erodes easily.	Soil blowing, piping.	Erodes easily, slope, droughty.
[1]49:						
Julesburg part	Seepage, slope.	Seepage, piping, low strength.	Slope	Droughty, slope, erodes easily.	Soil blowing, piping.	Erodes easily, slope, droughty.
Eckley part	Seepage, slope.	Seepage, piping.	Slope	Droughty, slope.	Too sandy	Droughty.

See footnotes at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbol	Features affecting-- Pond reservoir areas	Embankments, dikes, and levees	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Keith:						
50	Seepage	Piping, hard to pack, low strength.	Favorable	Erodes easily, slope.	Erodes easily, slope.	Erodes easily, slope.
Kim:						
51	Seepage, slope.	Piping, low strength.	Slope	Slope	Slope, piping.	Slope.
Kuma:						
52	Seepage	Low strength, piping.	Slope	Slope	Favorable	Favorable.
Kutch:						
53	Depth to rock	Thin layer, low strength, shrink-swell.	Depth to rock, percs slowly, slope.	Rooting depth, percs slowly, slope.	Depth to rock, percs slowly.	Rooting depth, percs slowly.
54	Depth to rock, slope.	Thin layer, low strength, shrink-swell.	Depth to rock, percs slowly, slope.	Rooting depth, percs slowly, slope.	Depth to rock, percs slowly.	Rooting depth, percs slowly, slope.
Lebsack:						
55	Favorable	Compressible, low strength, shrink-swell.	Percs slowly	Percs slowly	Percs slowly	Percs slowly.
56	Favorable	Hard to pack, low strength, shrink-swell.	Excess salt, excess sodium, percs slowly.	Excess salt, excess sodium, percs slowly.	Percs slowly	Percs slowly, excess salt, excess sodium.
57	Favorable	Hard to pack, low strength, shrink-swell.	Percs slowly, wetness, excess salt.	Percs slowly, wetness, excess salt.	Percs slowly	Percs slowly, wetness, excess salt.
Loveland:						
58	Seepage	Shrink-swell, piping, low strength.	Floods, wetness.	Wetness, floods.	Wetness	Wetness.
Manter:						
59	Seepage	Piping, low strength.	Slope	Droughty, soil blowing, slope.	Soil blowing, piping.	Soil blowing, droughty.
60	Seepage, slope.	Piping, low strength.	Slope	Droughty, soil blowing, slope.	Soil blowing, piping.	Soil blowing, slope, droughty.
61, 62	Seepage	Piping, low strength.	Slope	Droughty, slope, erodes easily.	Soil blowing, piping.	Erodes easily, droughty.
63	Seepage, slope.	Piping, low strength.	Slope	Droughty, slope, erodes easily.	Soil blowing, piping.	Erodes easily, slope, droughty.
64, 65	Seepage	Piping, low strength.	Cutbanks cave, wetness.	Wetness, erodes easily, droughty.	Piping, erodes easily.	Erodes easily, wetness.
Manzanola:						
66	Favorable	Low strength, piping, shrink-swell.	Slope, percs slowly.	Percs slowly, slope.	Percs slowly	Percs slowly.
Midway:						
67	Slope, depth to rock.	Thin layer, shrink-swell, low strength.	Complex slope, depth to rock, excess salt.	Complex slope, rooting depth, excess salt.	Complex slope, depth to rock.	Complex slope, excess salt, rooting depth.

See footnotes at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbol	Features affecting-- Pond reservoir areas	Embankments, dikes, and levees	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Mitchell:						
68	Seepage	Piping, low strength.	Slope	Slope, erodes easily.	Erodes easily, piping.	Erodes easily.
[1]69:						
Mitchell part	Seepage	Piping, low strength.	Slope	Slope, erodes easily.	Erodes easily, piping.	Erodes easily.
Keota part	Depth to rock, seepage.	Thin layer, low strength, piping.	Complex slope, depth to rock.	Rooting depth, complex slope.	Depth to rock, complex slope.	Complex slope, erodes easily.
[1]70:						
Mitchell part	Slope, seepage.	Piping, low strength.	Slope	Erodes easily, slope.	Erodes easily, piping.	Erodes easily.
Keota part	Depth to rock, seepage, slope.	Thin layer, low strength, piping.	Complex slope, depth to rock.	Rooting depth, complex slope.	Depth to rock, complex slope.	Complex slope, erodes easily, slope.
[1]71:						
Mitchell part	Seepage	Piping, low strength.	Slope	Slope, erodes easily.	Erodes easily, piping.	Erodes easily.
Norka part	Seepage	Piping, low strength, hard to pack.	Slope	Slope	Piping	Favorable.
Mosher:						
72, 73	Seepage	Low strength, piping.	Wetness	Percs slowly, excess salt, wetness.	Wetness, excess salt.	Excess salt, wetness.
Norka:						
74	Seepage, slope.	Piping, low strength, hard to pack.	Favorable	Favorable	Piping	Favorable.
[1]75:						
Norka part	Seepage	Piping, low strength, hard to pack.	Slope	Slope	Piping	Favorable.
Ulysses part	Seepage	Piping, low strength, hard to pack.	Slope	Erodes easily, slope.	Erodes easily, piping.	Erodes easily.
Nunn:						
76	Favorable	Low strength, shrink-swell.	Percs slowly	Percs slowly	Percs slowly	Favorable.
77, 78, 80	Favorable	Low strength, shrink-swell.	Percs slowly, slope.	Percs slowly, slope.	Percs slowly	Favorable.
79, 81	Slope	Low strength, shrink-swell.	Percs slowly, slope.	Percs slowly, slope.	Percs slowly	Slope.
82, 83	Favorable	Low strength, shrink-swell.	Percs slowly, wetness.	Percs slowly, wetness.	Percs slowly, wetness.	Wetness.
Olney:						
84	Seepage	Piping, low strength.	Slope	Slope, erodes easily.	Erodes easily, piping.	Erodes easily.
85	Seepage, slope.	Piping, low strength.	Slope	Slope, erodes easily.	Erodes easily, piping.	Erodes easily, slope.
Peetz:						
86	Seepage, slope.	Seepage			Complex slope	Complex slope.

See footnotes at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbol	Features affecting-- Pond reservoir areas	Embankments, dikes, and levees	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Platner:						
87, 89, 90	Seepage	Low strength, piping.	Slope	Slope, percs slowly.	Complex slope, percs slowly.	Percs slowly, complex slope.
88	Seepage	Low strength, piping.	Percs slowly	Percs slowly	Percs slowly	Percs slowly.
[1]91:						
Platner part	Seepage	Low strength, piping.	Slope, percs slowly.	Slope, percs slowly.	Complex slope, percs slowly.	Percs slowly, complex slope.
Rago part	Seepage	Low strength, piping.	Percs slowly	Percs slowly	Percs slowly	Percs slowly.
Dacono part	Seepage	Seepage, piping.	Slope	Droughty, slope.	Small stones	Droughty.
Rago:						
92, 93	Seepage	Low strength, piping.	Percs slowly	Percs slowly	Percs slowly	Percs slowly.
Renohill:						
[1]94:						
Renohill part	Slope, depth to rock.	Low strength, thin layer, shrink-swell.	Slope, depth to rock, percs slowly.	Slope, rooting depth.	Depth to rock, percs slowly.	Rooting depth, percs slowly, slope.
Shingle part	Slope, depth to rock.	Low strength, thin layer.	Depth to rock, slope.	Slope, rooting depth.	Depth to rock	Rooting depth, slope.
Rock outcrop:						
[1]95:						
Rock outcrop part.						
Argiustolls part	Slope				Slope	Slope.
Rosebud:						
[1]96:						
Rosebud part	Depth to rock	Shrink-swell, low strength, thin layer.	Slope, depth to rock.	Rooting depth, erodes easily, slope.	Depth to rock, erodes easily.	Erodes easily, rooting depth.
Escabosa part	Depth to rock	Thin layer, low strength.	Depth to rock, slope.	Droughty, rooting depth, slope.	Depth to rock, rooting depth.	Droughty, rooting depth.
[1]97:						
Rosebud part	Depth to rock, slope.	Shrink-swell, low strength, thin layer.	Slope, depth to rock.	Rooting depth, erodes easily, slope.	Depth to rock, erodes easily.	Erodes easily, rooting depth, slope.
Escabosa part	Depth to rock, slope.	Thin layer, low strength.	Depth to rock, slope.	Erodes easily, rooting depth, slope.	Depth to rock, rooting depth.	Erodes easily, rooting depth, slope.
[1]98:						
Rosebud part	Depth to rock	Shrink-swell, low strength, thin layer.	Slope, depth to rock.	Rooting depth, erodes easily, slope.	Depth to rock, erodes easily.	Erodes easily, rooting depth.
Escabosa part	Depth to rock	Thin layer, low strength.	Depth to rock, slope.	Droughty, rooting depth.	Depth to rock, rooting depth.	Droughty, rooting depth.
Iliff part	Depth to rock	Thin layer, low strength, piping.	Percs slowly, depth to rock, slope.	Percs slowly, slope, rooting depth.	Percs slowly	Percs slowly.

See footnotes at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbols	Features affecting-- Pond reservoir areas	Embankments, dikes, and levees	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Satanta:						
99	Seepage	Low strength, piping.	Favorable	Favorable	Favorable	Favorable.
100, 101	Seepage	Low strength, piping.	Slope	Slope	Favorable	Favorable.
102, 103	Seepage	Low strength, piping.	Wetness, excess salt.	Wetness, excess salt.	Wetness	Wetness, excess salt.
Shingle:						
104	Slope, depth to rock.	Low strength, thin layer.	Depth to rock, slope.	Slope, rooting depth.	Depth to rock	Rooting depth, slope.
Stoneham:						
105, 107	Seepage, slope.	Low strength, piping.	Slope	Slope	Favorable	Slope.
106	Seepage	Low strength, piping.	Slope	Slope	Favorable	Favorable.
[1]108:						
Stoneham part	Seepage, slope.	Low strength, piping.	Slope	Slope	Favorable	Slope.
Cushman part	Depth to rock, slope, seepage.	Thin layer, low strength, piping.	Depth to rock, complex slope.	Rooting depth, complex slope.	Depth to rock, complex slope.	Rooting depth, complex slope, erodes easily.
Thedalund:						
[1]109:						
Thedalund part	Depth to rock, slope.	Low strength, piping, thin layer.	Slope, depth to rock.	Slope, rooting depth.	Depth to rock, slope.	Slope, rooting depth.
Kim part	Seepage, slope.	Piping, low strength.	Slope	Slope	Slope, piping.	Slope.
Shingle part	Slope, depth to rock.	Low strength, thin layer.	Depth to rock, slope.	Slope, rooting depth.	Slope, depth to rock.	Slope, rooting depth.
Ulysses:						
[1]110:						
Ulysses part	Seepage	Shrink-swell, low strength.	Slope	Erodes easily, slope.	Erodes easily, piping.	Erodes easily.
Norka part	Seepage	Piping, low strength, hard to pack.	Slope	Slope	Piping	Favorable.
[1]111:						
Ulysses part	Seepage, slope.	Piping, low strength, hard to pack.	Slope	Erodes easily, slope.	Erodes easily	Erodes easily, slope.
Norka part	Seepage, slope.	Piping, low strength, hard to pack.	Slope	Slope, erodes easily.	Piping, erodes easily.	Erodes easily, slope.
Colby part	Seepage, slope.	Low strength, piping.	Slope	Slope, erodes easily.	Favorable	Slope, erodes easily.
Ustic Torriorthents:						
112	Slope				Slope	Slope.
Valent:						
113	Seepage	Piping, seepage.	Favorable	Soil blowing, droughty.	Soil blowing	Soil blowing.

See footnotes at end of table.

TABLE 10.--WATER MANAGEMENT--Continued

Soil name and map symbol	Features affecting-- Pond reservoir areas	Embankments, dikes, and levees	Drainage	Irrigation	Terraces and diversions	Grassed waterways
Valent:						
114, 115	Seepage, slope.	Piping, seepage.	Slope	Slope, soil blowing, droughty.	Slope, soil blowing, piping.	Slope, soil blowing.
Vona:						
116, 117	Seepage, slope.	Piping	Slope	Slope, seepage, erodes easily.	Erodes easily	Slope, erodes easily.
Wages:						
118, 119	Seepage	Piping, low strength.	Slope	Slope	Favorable	Favorable.
120	Seepage, slope.	Piping, low strength.	Slope	Slope	Favorable	Slope.
[1]121:						
Wages part	Seepage, slope.	Piping, low strength.	Slope	Slope	Favorable	Slope.
Altvan part	Seepage, slope.	Seepage, piping.	Slope	Slope, droughty.	Small stones	Droughty, slope.
[1]122:						
Wages part	Seepage	Piping, low strength.	Slope	Slope	Favorable	Favorable.
Manter part	Seepage	Piping, low strength.	Slope	Droughty, slope, erodes easily.	Erodes easily, piping.	Erodes easily.
[1]123:						
Wages part	Seepage	Piping, low strength.	Slope	Slope	Favorable	Favorable.
Rosebud part	Depth to rock	Shrink-swell, low strength, thin layer.	Slope	Rooting depth, erodes easily, slope.	Depth to rock, erodes easily.	Erodes easily, rooting depth.
[1]124:						
Wages part	Seepage, slope.	Piping, low strength.	Slope	Slope	Favorable	Slope.
Rosebud part	Depth to rock, slope.	Shrink-swell, low strength, thin layer.	Slope	Rooting depth, erodes easily, slope.	Depth to rock, erodes easily.	Erodes easily, rooting depth, slope.
Weld:						
125	Seepage	Low strength, piping, hard to pack.	Favorable	Percs slowly	Piping, percs slowly.	Percs slowly.
126	Seepage	Low strength, piping, hard to pack.	Slope, percs slowly.	Slope, percs slowly.	Piping, percs slowly.	Percs slowly.
Westplain:						
127	Seepage	Seepage	Poor outlets, cutbanks cave, floods.	Droughty, wetness, floods.	Wetness	Wetness.
[1]128:						
Westplain part	Seepage	Seepage	Poor outlets, cutbanks cave, floods.	Droughty, wetness, floods.	Wetness	Wetness.
Alda part	Seepage	Seepage, piping.	Poor outlets, wetness, floods.	Wetness, seepage, floods.	Wetness	Wetness.

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 11.--RECREATIONAL DEVELOPMENT

["Percs slowly" and some of the other terms that describe restrictive soil features are defined in the Glossary. See text for definitions of "slight," "moderate," and "severe"]

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Albinas:				
1	Severe: floods.	Moderate: floods.	Moderate: floods.	Slight.
Alda:				
2	Moderate: wetness.	Moderate: wetness.	Moderate: wetness.	Moderate: wetness.
3	Severe: floods.	Moderate: wetness, floods.	Moderate: wetness, floods.	Moderate: wetness.
Altvan:				
[1]4:				
Altvan part	Slight	Slight	Moderate: slope.	Slight.
Eckley part	Slight	Slight	Moderate: slope.	Slight.
[1]5:				
Altvan part	Slight	Slight	Severe: slope.	Slight.
Eckley part	Slight	Slight	Severe: slope.	Slight.
Aquolls:				
6	Severe: floods.	Severe: floods.	Severe: floods.	Moderate: wetness, floods.
Argiustolls:				
7	Moderate: wetness.	Moderate: wetness.	Moderate: wetness.	Moderate: wetness.
[1]8:				
Argiustolls part.				
Rock outcrop part.				
Arvada:				
9	Severe: percs slowly.	Slight	Severe: percs slowly.	Slight.
Ascalon:				
10	Slight	Slight	Slight	Slight.
11	Slight	Slight	Moderate: slope.	Slight.
12	Slight	Slight	Severe: slope.	Slight.
Badland:				
13.				
Bankard:				
14	Severe: floods.	Moderate: floods, too sandy.	Severe: floods, too sandy.	Severe: too sandy.
Bayard:				
[1]15:				
Bayard part	Moderate: too sandy.	Moderate: too sandy.	Moderate: slope, too sandy.	Moderate: too sandy.

See footnotes at end of table.

TABLE 11.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Bayard:				
[1]15:				
Canyon part	Moderate: small stones.	Moderate: small stones.	Severe: depth to rock, small stones.	Moderate: small stones.
Bridgeport:				
16	Slight	Slight	Slight	Slight.
Canyon:				
17	Moderate: slope, small stones.	Moderate: slope, small stones.	Severe: depth to rock, slope, small stones.	Moderate: small stones.
Chappell:				
18	Severe: floods.	Moderate: floods.	Moderate: floods.	Slight.
Colby:				
19	Moderate: slope.	Moderate: slope.	Severe: slope.	Slight.
Dacono:				
20	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
Dailey:				
21, 23	Moderate: too sandy.	Moderate too sandy.	Moderate: too sandy.	Moderate: too sandy.
22	Moderate: too sandy.	Moderate: too sandy.	Severe: slope.	Moderate: too sandy.
Dix:				
[1]24:				
Dix part	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope.
Altvan part	Moderate: slope.	Moderate: slope.	Severe: slope.	Slight.
[1]25:				
Dix part	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope.
Eckley part	Moderate: slope.	Moderate: slope.	Severe: slope.	Slight.
Els:				
26	Severe: floods.	Moderate: floods, wetness, too sandy.	Moderate: floods, wetness, too sandy.	Moderate: wetness, too sandy.
Epping:				
27	Moderate: dusty.	Moderate: dusty.	Severe: depth to rock, slope.	Moderate: dusty.
Fluvaquentic Haplaquolls:				
28	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness.

See footnotes at end of table.

TABLE 11.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Fluvaquents:				
29	Severe: floods.	Severe: wetness, floods.	Severe: wetness, floods.	Severe: wetness.
Glenberg:				
30	Severe: floods.	Moderate: floods.	Moderate: floods.	Slight.
Gravel pits:				
31.				
Haverson:				
32, 33	Severe: floods.	Slight	Slight	Slight.
34	Severe: floods.	Moderate: floods.	Moderate: floods.	Slight.
35	Severe: floods.	Moderate: floods.	Severe: floods.	Slight.
Haxtun:				
36	Moderate: too sandy.	Moderate: too sandy.	Moderate: too sandy.	Moderate: too sandy.
37	Moderate: too sandy.	Moderate: too sandy.	Moderate: too sandy, slope.	Moderate: too sandy.
38	Slight	Slight	Slight	Slight.
Hayford:				
39, 40	Severe: floods.	Moderate: too clayey.	Moderate: percs slowly, too clayey.	Moderate: too clayey.
Heldt:				
41, 42	Moderate: too clayey, percs slowly.	Moderate: too clayey.	Moderate: percs slowly, too clayey.	Moderate: too clayey.
Iliff:				
43	Moderate: percs slowly.	Slight	Moderate: percs slowly, depth to rock.	Slight.
Julesburg:				
44	Moderate: too sandy.	Moderate: too sandy.	Moderate: too sandy.	Moderate: too sandy.
45	Moderate: too sandy.	Moderate: too sandy.	Moderate: slope, too sandy.	Moderate: too sandy.
46	Slight	Slight	Slight	Slight.
47	Slight	Slight	Moderate: slope.	Slight.
48	Slight	Slight	Severe: slope.	Slight.
[1]49:				
Julesburg part	Slight	Slight	Moderate: slope.	Slight.
Eckley part	Moderate: small stones.	Moderate: small stones.	Severe: slope, small stones.	Moderate: small stones.

See footnotes at end of table.

TABLE 11.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Keith:				
50	Slight	Slight	Slight	Slight.
Kim:				
51	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
Kuma:				
52	Moderate: dusty.	Moderate: dusty.	Moderate: dusty.	Moderate: dusty.
Kutch:				
53	Moderate: percs slowly, too clayey.	Moderate: too clayey.	Moderate: too clayey, depth to rock, percs slowly.	Moderate: too clayey.
54	Moderate: percs slowly, too clayey.	Moderate: too clayey.	Severe: slope.	Moderate: too clayey.
Lebsack:				
55, 56	Moderate: percs slowly, too clayey.	Moderate: too clayey.	Moderate: percs slowly, too clayey.	Moderate: too clayey.
57	Moderate: percs slowly, wetness, too clayey.	Moderate: too clayey, wetness.	Moderate: percs slowly, too clayey, wetness.	Moderate: too clayey, wetness.
Loveland:				
58	Severe: floods.	Moderate: wetness, floods, too clayey.	Moderate: wetness, floods, too clayey.	Moderate: wetness, too clayey.
Manter:				
59	Moderate: too sandy.	Moderate: too sandy.	Moderate: too sandy.	Moderate: too sandy.
60	Moderate: too sandy.	Moderate: too sandy.	Severe: slope.	Moderate: too sandy.
61, 64	Slight	Slight	Slight	Slight.
62	Slight	Slight	Moderate: slope.	Slight.
63	Slight	Slight	Severe: slope.	Slight.
65	Moderate: wetness.	Slight	Moderate: wetness.	Slight.
Manzanola:				
66	Moderate: percs slowly, too clayey.	Moderate: too clayey.	Moderate: percs slowly, too clayey.	Moderate: too clayey.
Midway:				
67	Moderate: slope, too clayey, percs slowly.	Moderate: slope, too clayey.	Severe: slope, depth to rock.	Moderate: too clayey.
Mitchell:				
68	Slight	Slight	Slight	Slight.

See footnotes at end of table.

TABLE 11.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Mitchell:				
[1]69:				
Mitchell part	Slight	Slight	Slight	Slight.
Keota part	Moderate: dusty.	Moderate: dusty.	Moderate: dusty, depth to rock.	Moderate: dusty.
[1]70:				
Mitchell part	Slight	Slight	Moderate: slope.	Slight.
Keota part	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
[1]71:				
Mitchell part	Slight	Slight	Slight	Slight.
Norka part	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
Mosher:				
72	Severe: floods.	Slight	Moderate: percs slowly.	Slight.
73	Severe: too clayey, floods.	Severe: too clayey.	Severe: too clayey.	Severe: too clayey.
Norka:				
74	Slight	Slight	Slight	Slight.
[1]75:				
Norka part	Moderate: percs slowly.	Slight	Moderate: slope, percs slowly.	Slight.
Ulysses part	Slight	Slight	Moderate: slope.	Slight.
Nunn:				
76	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
77, 78	Moderate: percs slowly.	Slight	Moderate: percs slowly, slope.	Slight.
79	Moderate: percs slowly.	Slight	Severe: slope.	Slight.
80, 82	Moderate: percs slowly, too clayey.	Moderate: too clayey.	Moderate: percs slowly, slope, too clayey.	Moderate: too clayey.
81	Moderate: percs slowly, too clayey.	Moderate: too clayey.	Severe: slope.	Moderate: too clayey.
83	Moderate: wetness, percs slowly, too clayey.	Moderate: wetness, too clayey.	Moderate: wetness, percs slowly, too clayey.	Moderate: too clayey, wetness.
Olney:				
84	Slight	Slight	Moderate: slope.	Slight.

See footnotes at end of table.

TABLE 11.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Olney:				
85	Slight	Slight	Severe: slope.	Slight.
Peetz:				
86	Severe: slope.	Severe: slope.	Severe: slope, small stones.	Moderate: slope, small stones.
Platner:				
87, 88	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
89, 90	Moderate: percs slowly.	Slight	Moderate: slope, percs slowly.	Slight.
[1]91:				
Platner part	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
Rago part	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
Dacono part	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
Rago:				
92	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
93	Moderate: percs slowly, too clayey.	Moderate: too clayey.	Moderate: percs slowly, too clayey.	Moderate: too clayey.
Renohill:				
[1]94:				
Renohill part	Moderate: percs slowly.	Slight	Moderate: slope, percs slowly, depth to rock.	Slight.
Shingle part	Slight	Slight	Severe: slope, depth to rock.	Slight.
Rock outcrop:				
[1]95:				
Rock outcrop part.				
Argiustolls part	Severe: slope.	Severe: slope.	Severe: slope, large stones.	Moderate: slope.
Rosebud:				
[1]96:				
Rosebud part	Moderate: percs slowly.	Slight	Moderate: slope, percs slowly, depth to rock.	Slight.
Escabosa part	Slight	Slight	Moderate: slope, depth to rock.	Slight.
[1]97:				
Rosebud part	Moderate: percs slowly.	Slight	Severe: slope.	Slight.

See footnotes at end of table.

TABLE 11.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Rosebud:				
[1]97:				
Escabosa part	Slight	Slight	Severe: slope.	Slight.
[1]98:				
Rosebud part	Moderate: percs slowly.	Slight	Moderate: percs slowly, depth to rock.	Slight.
Escabosa part	Slight	Slight	Moderate: depth to rock.	Slight.
Iliff part	Moderate: percs slowly.	Slight	Moderate: percs slowly, depth to rock.	Slight.
Satanta:				
99, 102	Slight	Slight	Slight	Slight.
100, 101	Slight	Slight	Moderate: slope.	Slight.
103	Moderate: wetness.	Slight	Moderate: wetness.	Slight.
Shingle:				
104	Slight	Slight	Severe: depth to rock.	Slight.
Stoneham:				
105, 107	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
106	Moderate: dusty.	Moderate: dusty.	Moderate: dusty, slope.	Moderate: dusty.
[1]108:				
Stoneham part	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
Cushman part	Moderate: dusty.	Moderate: dusty.	Severe: slope.	Moderate: dusty.
Thedalund:				
[1]109:				
Thedalund part	Moderate: dusty, slope.	Moderate: dusty, slope.	Severe: slope.	Moderate: dusty.
Kim part	Moderate: dusty, slope.	Moderate: dusty, slope.	Severe: slope.	Moderate: dusty.
Shingle part	Moderate: slope.	Moderate: slope.	Severe: slope, depth to rock.	Slight.
Ulysses:				
[1]110:				
Ulysses part	Slight	Slight	Moderate: slope.	Slight.
Norka part	Moderate: percs slowly.	Slight	Moderate: slope, percs slowly.	Slight.

See footnotes at end of table.

TABLE 11.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Ulysses:				
[1]111:				
Ulysses part	Slight	Slight	Moderate: slope.	Slight.
Norka part	Moderate: percs slowly.	Slight	Moderate: slope, percs slowly.	Slight.
Colby part	Slight	Slight	Moderate: slope.	Slight.
Ustic Torriorthents:				
112	Severe: slope.	Severe: slope.	Severe: slope.	Severe: slope.
Valent:				
113	Moderate: too sandy.	Moderate: too sandy.	Severe: too sandy.	Severe: too sandy.
114	Severe: slope.	Severe: slope.	Severe: too sandy, slope.	Severe: too sandy, slope.
115	Moderate: too sandy, slope.	Moderate: too sandy, slope.	Severe: slope.	Moderate: too sandy.
Vona:				
116	Moderate: too sandy.	Moderate: too sandy.	Severe: slope.	Moderate: too sandy.
117	Slight	Slight	Severe: slope.	Slight.
Wages:				
118	Slight	Slight	Slight	Slight.
119	Slight	Slight	Moderate: slope.	Slight.
120	Slight	Slight	Severe: slope.	Slight.
[1]121:				
Wages part	Slight	Slight	Severe: slope.	Slight.
Altvan part	Slight	Slight	Severe: slope.	Slight.
[1]122:				
Wages part	Slight	Slight	Severe: slope.	Slight.
Manter part	Slight	Slight	Severe: slope.	Slight.
[1]123:				
Wages part	Slight	Slight	Moderate: slope.	Slight.
Rosebud part	Moderate: percs slowly.	Slight	Moderate: slope, depth to rock, percs slowly.	Slight.
[1]124:				
Wages part	Slight	Slight	Severe: slope.	Slight.

See footnotes at end of table.

TABLE 11.--RECREATIONAL DEVELOPMENT--Continued

Soil name and map symbol	Camp areas	Picnic areas	Playgrounds	Paths and trails
Wages:				
[1]124:				
Rosebud part	Moderate: percs slowly.	Slight	Severe: slope.	Slight.
Weld:				
125	Moderate: percs slowly.	Slight	Moderate: percs slowly.	Slight.
126	Moderate: percs slowly.	Slight	Moderate: percs slowly, slope.	Slight.
Westplain:				
127	Severe: wetness, floods.	Severe: wetness.	Severe: wetness, floods.	Severe: wetness.
[1]128:				
Westplain part	Severe: wetness, floods.	Severe: wetness.	Severe: wetness, floods.	Severe: wetness.
Alda part	Severe: wetness, floods.	Moderate: wetness, floods.	Moderate: wetness, floods.	Moderate: wetness.

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 12.--WILDLIFE HABITAT POTENTIALS

[See text for definitions of "good," "fair," "poor," and "very poor." Absence of an entry indicates the soil was not rated]

Soil name and map symbol	Potential for habitat elements								Potential as habitat for--			
	Nonirrigated		Irrigated		Nonirrigated				Nirr.	Irr.	Nonirrigated	
	Grain and seed crops	Grasses and legumes	Grain and seed crops	Grasses and legumes	Wild herbaceous plants	Shrubs	Wetland plants	Shallow water areas	Openland wildlife	Openland wildlife	Wetland wildlife	Rangeland wildlife
Albinas:												
1	Good	Good	Good	Good	Fair	Fair	Poor	Very poor.	Good	Good	Very poor.	Fair.
Alda:												
2, 3	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Fair	Fair	Fair	Fair.
Altvan:												
[1]4, [1]5:												
Altvan part	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Good	Very poor.	Fair.
Eckley part	Poor	Poor	Poor	Fair	Fair	Fair	Very poor.	Very poor.	Poor	Fair	Very poor.	Fair.
Aquolls:												
6	Poor	Fair	Poor	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good.
Argiustolls:												
7	Poor	Fair	Poor	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good.
[1]8:												
Argiustolls part	Poor	Fair	---	---	Fair	Fair	Very poor.	Very poor.	Fair	---	Very poor.	Fair.
Rock outcrop part.												
Arvada:												
9	Poor	Poor	---	---	Poor	Poor	Poor	Very poor.	Poor	---	Very poor.	Very poor.
Ascalon:												
10, 11	Fair	Fair	Good	Good	Fair	Fair	Poor	Very poor.	Fair	Good	Very poor.	Fair.
12	Fair	Fair	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Badland:												
13.												
Bankard:												
14	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Very poor.	Poor	Poor	Very poor.	Poor.
Bayard:												
[1]15:												
Bayard part	Fair	Fair	---	---	Fair	Fair	Very poor.	Very poor.	Fair	---	Very poor.	Fair.
Canyon part	Poor	Poor	---	---	Poor	Poor	Very poor.	Very poor.	Poor	---	Very poor.	Poor.
Bridgeport:												
16	Good	Good	Good	Good	Fair	Poor	Poor	Poor	Fair	Good	Poor	Poor.
Canyon:												
17	Poor	Poor	---	---	Poor	Poor	Very poor.	Very poor.	Poor	---	Very poor.	Poor.

See footnotes at end of table.

TABLE 12.--WILDLIFE HABITAT POTENTIALS--Continued

Soil name and map symbol	Potential for habitat elements								Potential as habitat for--			
	Nonirrigated		Irrigated		Nonirrigated				Nirr.	Irr.	Nonirrigated	
	Grain and seed crops	Grasses and legumes	Grain and seed crops	Grasses and legumes	Wild herbaceous plants	Shrubs	Wetland plants	Shallow water areas	Openland wildlife	Openland wildlife	Wetland wildlife	Rangeland wildlife
Chappell:												
18	Fair	Fair	Fair	Fair	Fair	Fair	Very poor.	Very poor.	Fair	Fair	Very poor.	Fair.
Colby:												
19	Poor	Fair	---	---	Fair	Poor	Poor	Very poor.	Fair	---	Very poor.	Poor.
Dacono:												
20	Fair	Fair	Fair	Fair	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Dailey:												
21, 22, 23	Poor	Fair	Poor	Fair	Fair	Fair	Very poor.	Very poor.	Fair	Fair	Very poor.	Fair.
Dix:												
[1]24:												
Dix part	Poor	Poor	---	---	Fair	Fair	Very poor.	Very poor.	Poor	---	Very poor.	Fair.
Altvan part	Poor	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
[1]25:												
Dix part	Poor	Poor	---	---	Fair	Fair	Very poor.	Very poor.	Poor	---	Very poor.	Fair.
Eckley part	Poor	Poor	---	---	Fair	Fair	Very poor.	Very poor.	Poor	---	Very poor.	Fair.
Els:												
26	Poor	Poor	Poor	Poor	Good	Good	Good	Good	Fair	Poor	Good	Good.
Epping:												
27	Very poor.	Very poor.	---	--	Poor	Poor	Very poor.	Very poor.	Very poor.	---	Very poor.	Poor.
Fluvaquentic Haplaquolls:												
28	Poor	Poor	---	---	Good	Good	Good	Good	Fair	---	Good	Good.
Fluvaquents:												
29	Poor	Poor	---	---	Fair	Fair	Good	Good	Poor	---	Good	Fair.
Glenberg:												
30	Fair	Fair	Good	Good	Fair	Fair	Poor	Very poor.	Fair	Good	Very poor.	Fair.
Gravel pits:												
31.												
Haverson:												
32, 33, 34, 35	Fair	Fair	Good	Good	Fair	Fair	Poor	Very poor.	Fair	Good	Very poor.	Fair.
Haxtun:												
36, 37	Fair	Fair	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
38	Good	Good	Good	Good	Fair	Fair	Poor	Very poor.	Good	Good	Very poor.	Fair.
Hayford:												
39	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Fair	Fair	Fair	Good.
40	Poor	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair.

See footnotes at end of table.

TABLE 12.--WILDLIFE HABITAT POTENTIALS--Continued

Soil name and map symbol	Potential for habitat elements								Potential as habitat for--			
	Nonirrigated		Irrigated		Nonirrigated				Nirr.	Irr.	Nonirrigated	
	Grain and seed crops	Grasses and legumes	Grain and seed crops	Grasses and legumes	Wild herbaceous plants	Shrubs	Wetland plants	Shallow water areas	Openland wildlife	Openland wildlife	Wetland wildlife	Rangeland wildlife
Heldt:												
41	Fair	Fair	Good	Good	Poor	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Poor.
42	Poor	Poor	Good	Good	Poor	Poor	Poor	Very poor.	Poor	Fair	Very poor.	Poor.
Iliff:												
43	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Poor.
Julesburg:												
44, 45, 48	Poor	Fair	Fair	Fair	Fair	Fair	Very poor.	Very poor.	Fair	Fair	Very poor.	Fair.
46, 47	Fair	Good	Good	Good	Fair	Fair	Very poor.	Very poor.	Fair	Good	Very poor.	Fair.
[1]49:												
Julesburg part	Poor	Fair	Fair	Fair	Fair	Fair	Very poor.	Very poor.	Fair	Fair	Very poor.	Fair.
Eckley part	Poor	Poor	Poor	Fair	Fair	Fair	Very poor.	Very poor.	Poor	Fair	Very poor.	Fair.
Keith:												
50	Good	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
Kim:												
51	Poor	Fair	Fair	Good	Fair	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Poor.
Kuma:												
52	Good	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
Kutch:												
53, 54	Poor	Poor	---	---	Fair	Fair	Poor	Very poor.	Poor	---	Very poor.	Fair.
Lebsack:												
55	Fair	Fair	Good	Good	Fair	Poor	Fair	Poor	Poor	Good	Fair	Poor.
56	Poor	Poor	Poor	Poor	Fair	Fair	Fair	Fair	Poor	Poor	Fair	Fair.
57	Poor	Fair	Good	Good	Good	Good	Good	Fair	Fair	Good	Fair	Good.
Loveland:												
58	Fair	Fair	Fair	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good.
Manter:												
59, 60, 63	Poor	Fair	Fair	Good	Fair	Fair	Very poor.	Very poor.	Fair	Fair	Very poor.	Fair.
61, 62	Fair	Fair	Good	Good	Fair	Fair	Very poor.	Very poor.	Fair	Good	Very poor.	Fair.
64, 65	Fair	Fair	Good	Good	Fair	Good	Fair	Fair	Fair	Good	Fair	Fair.
Manzanola:												
66	Poor	Fair	Good	Good	Fair	Fair	Poor	Very poor.	Fair	Good	Very poor.	Fair.
Midway:												
67	Very poor.	Very poor.	---	---	Poor	Poor	Very poor.	Very poor.	Very poor.	---	Very poor.	Poor.

See footnotes at end of table.

TABLE 12.--WILDLIFE HABITAT POTENTIALS--Continued

Soil name and map symbol	Potential for habitat elements								Potential as habitat for--			
	Nonirrigated		Irrigated		Nonirrigated				Nirr.	Irr.	Nonirrigated	
	Grain and seed crops	Grasses and legumes	Grain and seed crops	Grasses and legumes	Wild herbaceous plants	Shrubs	Wetland plants	Shallow water areas	Openland wildlife	Openland wildlife	Wetland wildlife	Rangeland wildlife
Mitchell:												
68	Fair	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
[1]69:												
Mitchell part	Fair	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
Keota part	Poor	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
[1]70:												
Mitchell part	Poor	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
Keota part	Poor	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
[1]71:												
Mitchell part	Fair	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
Norka part	Good	Good	---	---	Fair	Poor	Poor	Very poor.	Fair	---	Very poor.	Poor.
Mosher:												
72	Poor	Fair	Poor	Poor	Fair	Poor	Poor	Poor	Fair	Poor	Poor	Poor.
73	Poor	Poor	---	---	Poor	Poor	Very poor.	Very poor.	Poor	---	Very poor.	Poor.
Norka:												
74	Good	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
[1]75:												
Norka part	Good	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
Ulysses part	Good	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
Nunn:												
76, 77, 78, 79, 80, 81	Fair	Fair	Good	Good	Fair	Fair	Poor	Very poor.	Fair	Good	Very poor.	Fair.
82, 83	Fair	Fair	Good	Good	Fair	Fair	Fair	Fair	Fair	Good	Fair	Fair.
Olney:												
84, 85	Poor	Fair	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Peetz:												
86	Poor	Poor	---	---	Fair	Fair	Very poor.	Very poor.	Fair	---	Very poor.	Fair.
Platner:												
87, 88, 89	Good	Good	Good	Good	Fair	Fair	Poor	Very poor.	Good	Good	Very poor.	Fair.
90	Fair	Good	Good	Good	Fair	Fair	Poor	Very poor.	Fair	Good	Very poor.	Fair.
[1]91:												
Platner part	Good	Good	Good	Good	Fair	Fair	Poor	Very poor.	Good	Good	Very poor.	Fair.

See footnotes at end of table.

TABLE 12.--WILDLIFE HABITAT POTENTIALS--Continued

Soil name and map symbol	Potential for habitat elements								Potential as habitat for--			
	Nonirrigated		Irrigated		Nonirrigated				Nirr.	Irr.	Nonirrigated	
	Grain and seed crops	Grasses and legumes	Grain and seed crops	Grasses and legumes	Wild herbaceous plants	Shrubs	Wetland plants	Shallow water areas	Openland wildlife	Openland wildlife	Wetland wildlife	Rangeland wildlife
Platner:												
[1]91:												
Rago part-------	Good	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
Dacono part-----	Good	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
Rago:												
92, 93----------	Good	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
Renohill:												
[1]94:												
Renohill part---	Poor	Fair	Fair	Fair	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Shingle part----	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Very poor.	Poor	Poor	Very poor.	Poor.
Rock outcrop:												
[1]95:												
Rock outcrop part.												
Argiustolls part	Poor	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
Rosebud:												
[1]96:												
Rosebud part----	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Escabosa part---	Fair	Fair	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
[1]97:												
Rosebud part----	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Escabosa part---	Poor	Fair	Fair	Good	Fair	Fair	Very poor.	Very poor.	Fair	Fair	Very poor.	Fair.
[1]98:												
Rosebud part----	Good	Good	Good	Good	Fair	Fair	Poor	Very poor.	Good	Good	Very poor.	Fair.
Escabosa part---	Fair	Fair	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Iliff part------	Fair	Fair	Fair	Fair	Fair	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Satanta:												
99, 100, 101------	Good	Good	Good	Good	Fair	Poor	Very poor.	Very poor.	Fair	Good	Very poor.	Poor.
102, 103----------	Good	Good	Good	Good	Good	Fair	Fair	Fair	Good	Good	Fair	Fair.
Shingle:												
104----------	Poor	Poor	---	---	Poor	Poor	Poor	Very poor.	Poor	---	Very poor.	Poor.
Stoneham:												
105, 106, 107-----	Poor	Fair	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.

See footnotes at end of table.

TABLE 12.--WILDLIFE HABITAT POTENTIALS--Continued

Soil name and map symbol	Potential for habitat elements								Potential as habitat for--			
	Nonirrigated		Irrigated		Nonirrigated				Nirr.	Irr.	Nonirrigated	
	Grain and seed crops	Grasses and legumes	Grain and seed crops	Grasses and legumes	Wild herbaceous plants	Shrubs	Wetland plants	Shallow water areas	Openland wildlife	Openland wildlife	Wetland wildlife	Rangeland wildlife
Stoneham:												
[1]108:												
Stoneham part---	Poor	Fair	---	---	Fair	Fair	Poor	Very poor.	Fair	---	Very poor.	Fair.
Cushman part----	Poor	Poor	---	---	Fair	Fair	Very poor.	Very poor.	Poor	---	Very poor.	Fair.
Thedalund:												
[1]109:												
Thedalund part--	Poor	Poor	---	---	Fair	Fair	Very poor.	Very poor.	Poor	---	Very poor.	Fair.
Kim part--------	Poor	Fair	---	---	Fair	Poor	Poor	Very poor.	Fair	---	Very poor.	Poor.
Shingle part----	Poor	Poor	---	---	Poor	Poor	Very poor.	Very poor.	Poor	---	Very poor.	Poor.
Ulysses:												
[1]110:												
Ulysses part----	Fair	Good	Fair	Good	Fair	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Poor.
Norka part------	Fair	Good	Fair	Good	Fair	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Poor.
[1]111:												
Ulysses part----	Fair	Good	Fair	Good	Fair	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Poor.
Norka part------	Fair	Good	Fair	Good	Fair	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Poor.
Colby part------	Poor	Fair	Fair	Good	Fair	Poor	Poor	Very poor.	Fair	Fair	Very poor.	Poor.
Ustic Torriorthents:												
112----------	Very poor.	Very poor.	---	---	Fair	Fair	Very poor.	Very poor.	Very poor.	---	Very poor.	Fair.
Valent:												
113, 115----------	Poor	Fair	Poor	Poor	Fair	Fair	Very poor.	Very poor.	Fair	Poor	Very poor.	Fair.
114----------	Very poor.	Poor	---	---	Fair	Fair	Very poor.	Very poor.	Poor	---	Very poor.	Fair.
Vona:												
116, 117----------	Poor	Fair	Fair	Fair	Fair	Fair	Very poor.	Very poor.	Fair	Fair	Very poor.	Fair.
Wages:												
118, 119, 120-----	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
[1]121:												
Wages part------	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Altvan part-----	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
[1]122:												
Wages part------	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.

See footnotes at end of table.

TABLE 12.--WILDLIFE HABITAT POTENTIALS--Continued

Soil name and map symbol	Potential for habitat elements								Potential as habitat for--			
	Nonirrigated		Irrigated		Nonirrigated				Nirr.	Irr.	Nonirrigated	
	Grain and seed crops	Grasses and legumes	Grain and seed crops	Grasses and legumes	Wild herbaceous plants	Shrubs	Wetland plants	Shallow water areas	Openland wildlife	Openland wildlife	Wetland wildlife	Rangeland wildlife
Wages:												
[1]122:												
Manter part-----	Fair	Good	Fair	Good	Fair	Fair	Very poor.	Very poor.	Fair	Fair	Very poor.	Fair.
[1]123:												
Wages part------	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Rosebud part----	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
[1]124:												
Wages part------	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Rosebud part----	Fair	Good	Fair	Good	Fair	Fair	Poor	Very poor.	Fair	Fair	Very poor.	Fair.
Weld:												
125, 126----------	Fair	Good	Good	Good	Fair	Poor	Poor	Very poor.	Fair	Good	Very poor.	Poor.
Westplain:												
127----------	Poor	Fair	Fair	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good.
[1]128:												
Westplain part--	Poor	Fair	Fair	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good.
Alda part-------	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Fair	Fair	Fair	Good.

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS

[The symbol < means less than; > means greater than. Absence of an entry means data were not estimated]

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
Albinas:											
1	0-12	Loam	ML	A-4	0	100	95-100	80-100	50-75	20-30	NP-5
	12-29	Sandy clay loam, clay loam.	SC, CL	A-6	0	100	95-100	80-100	40-80	30-40	10-20
	29-60	Loam	CL-ML	A-4	0	100	95-100	60-95	50-75	20-30	5-10
Alda:											
2	0-10	Sandy loam	SM	A-4	0	95-100	95-100	65-75	35-50	15-30	NP-5
	10-34	Fine sandy loam	SM	A-2, A-4	0	95-100	95-100	70-85	30-50	15-20	NP-5
	34-60	Sand and gravel	SP, GP	A-1, A-3	0	30-90	20-85	20-55	0-5	---	NP
3	0-10	Loam	ML	A-4	0	95-100	95-100	85-95	50-75	20-30	NP-5
	10-34	Fine sandy loam	SM	A-2, A-4	0	95-100	95-100	70-85	30-50	15-20	NP-5
	34-60	Sand and gravel	SP, GP	A-1, A-3	0	30-90	20-85	20-55	0-5	---	NP
Altvan:											
[1]4:											
Altvan part	0-8	Sandy loam	SM	A-4	0	90-100	85-100	60-75	35-50	---	NP
	8-23	Clay loam, loam	CL	A-6, A-7	0	95-100	95-100	85-100	70-80	35-50	15-25
	23-30	Loam	CL-ML	A-4	0	90-100	85-100	60-95	50-65	20-30	5-10
	30-60	Sand and gravel	SP, SP-SM	A-1	0	75-95	70-90	25-35	0-10	---	NP
Eckley part	0-3	Sandy loam	SM	A-2	0	80-90	75-85	50-55	25-30	20-40	NP-10
	3-20	Gravelly sandy clay loam, gravelly loam.	SC	A-2, A-6	0	75-95	50-75	30-65	20-45	25-40	10-20
	20-60	Gravelly sand, gravelly loamy sand.	SM, SP-SM, GP-GM, GM	A-1	0	50-85	40-75	15-45	5-15	---	NP
[1]5:											
Altvan part	0-8	Sandy loam	SM	A-4	0	90-100	85-100	60-75	35-50	---	NP
	8-23	Clay loam, loam	CL	A-6, A-7	0	95-100	95-100	85-100	70-80	35-50	15-25
	23-30	Loam	CL-ML	A-4	0	90-100	85-100	60-95	50-65	20-30	5-10
	30-60	Sand and gravel	SP, SP-SM	A-1	0	75-95	70-90	25-35	0-10	---	NP
Eckley part	0-3	Sandy loam	SM	A-2	0	80-90	75-85	50-55	25-30	20-40	NP-10
	3-20	Gravelly sandy clay loam, gravelly loam.	SC	A-2, A-6	0	75-95	50-75	30-65	20-45	25-40	10-20
	20-60	Gravelly sand, gravelly loamy sand.	SM, SP-SM, GP-GM, GM	A-1	0	50-85	40-75	15-45	5-15	---	NP
Aquolls:											
6	0-60	Variable	---	---	---	---	---	---	---	---	---
Argiustolls:											
7	0-60	Variable	---	---	---	---	---	---	---	---	---
[1]8:											
Argiustolls part	0-60	Variable	---	---	---	---	---	---	---	---	---
Rock outcrop part.											
Arvada:											
9	0-4	Silt loam	CL-ML, ML	A-4	0	90-100	90-100	85-100	75-95	25-35	5-10
	4-11	Clay	CL, CH	A-7	0	80-100	75-100	70-100	65-95	40-65	20-35
	11-60	Clay loam	CL	A-7	0	80-100	75-100	70-100	55-80	40-45	20-25

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
Ascalon:											
10, 11, 12--------	0-7	Fine sandy loam	SM, SM-SC	A-2, A-4	0	95-100	90-100	70-95	25-50	15-25	NP-5
	7-14	Sandy clay loam	SC, CL	A-6, A-4	0	95-100	90-100	80-100	40-55	20-40	10-20
	14-30	Sandy loam, sandy clay loam, fine sandy loam.	SC, SM-SC, CL, CL-ML	A-4, A-6	0	95-100	95-100	75-95	35-65	20-40	5-15
	30-60	Fine sandy loam, loamy fine sand, sandy loam.	SM	A-2	0	95-100	95-100	70-95	20-35	---	NP
Bankard:											
14----------	0-3	Sand----------	SP-SM, SM	A-2, A-3	0	95-100	80-100	50-75	5-25	---	NP
	3-60	Fine sand, sand, gravelly sand.	SP-SM, SM	A-2, A-3	0-5	70-100	60-100	50-70	5-25	---	NP
Bayard:											
15:											
Bayard part-----	0-12	Loamy sand------	SM	A-2, A-4	0	85-100	85-100	60-80	20-40	---	NP
	12-60	Fine sandy loam	SM, ML	A-4, A-2	0	90-100	80-100	60-85	30-60	---	NP
Canyon part-----	0-5	Gravelly loam---	SM, GM	A-4	0-5	60-80	50-75	45-60	35-50	---	NP
	5-11	Very fine sandy loam, loam, gravelly loam.	ML, SM	A-4	0-5	60-100	50-100	45-95	35-75	---	NP
	11	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Bridgeport:											
16----------	0-10	Loam----------	CL-ML	A-4	0	100	100	95-100	75-100	25-40	5-10
	10-60	Silt loam, silty clay loam, loam.	CL-ML, CL	A-4, A-6	0	100	100	95-100	85-100	25-40	5-20
Canyon:											
17----------	0-5	Gravelly loam---	SM, GM	A-4	0-5	60-80	50-75	45-60	35-50	---	NP
	5-11	Very fine sandy loam, loam, gravelly loam.	ML, SM	A-4	0-5	60-100	50-100	45-95	35-75	---	NP
	11	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Chappell:											
18----------	0-12	Sandy loam------	SM, ML	A-2, A-4	0	90-100	90-100	60-85	30-55	20-30	NP-5
	12-30	Sandy loam, fine sandy loam, coarse sandy loam.	SM	A-2, A-4	0	90-100	90-100	60-80	30-50	20-30	NP-5
	30-41	Gravelly loamy sand, gravelly sandy loam.	SM	A-2	0	45-65	35-50	5-25	0-20	---	NP
	41-60	Sand and gravel	SP, GP, SP-SM, GP-GM	A-1	0-5	95-100	30-40	5-20	0-10	---	NP
Colby:											
19----------	0-4	Loam----------	CL-ML, CL	A-4, A-6	0	100	100	90-100	85-100	25-40	5-15
	4-60	Silt loam, loam	CL-ML, CL	A-4, A-6	0	100	100	90-100	85-100	25-35	5-15

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
Dacono:											
20	0-4	Loam	ML	A-4	0	85-100	75-100	75-95	70-80	20-40	NP-10
	4-13	Clay loam, clay, gravelly clay loam.	CL	A-6, A-7	0	75-100	60-100	55-95	50-85	35-45	20-30
	13-28	Sandy clay loam, loam.	CL	A-6	0	85-100	75-100	65-95	55-80	25-40	10-20
	28-60	Very gravelly sand.	SP, GP	A-1	0	35-80	5-50	5-40	0-5	---	NP
Dailey:											
21, 22	0-16	Loamy sand	SM, SP-SM	A-2, A-3	0	100	100	80-95	10-30	---	NP
	16-60	Loamy sand, fine sand, sand.	SP-SM, SM, SP	A-2, A-3	0	100	95-100	75-95	0-25	---	NP
23	0-24	Loamy sand	SM	A-2	0	100	100	60-75	20-30	---	NP
	24-37	Loamy sand	SM	A-2	0	100	100	60-75	20-30	---	NP
	37-60	Sandy loam	SM	A-2, A-4	0	100	100	65-80	30-40	---	NP
Dix:											
[1]24:											
Dix part	0-10	Gravelly sandy loam.	SM	A-1, A-2	0	70-90	40-70	35-50	10-30	---	NP
	10-18	Gravelly loamy coarse sand, loamy sand.	SM	A-1, A-2	0	80-90	30-40	30-40	10-20	---	NP
	18-60	Sand and gravel	SP, GP	A-1	0-5	45-85	30-50	25-35	0-5	---	NP
Altvan part	0-8	Sandy loam	SM	A-4	0	90-100	85-100	60-95	35-50	---	NP
	8-23	Clay loam, loam	CL	A-6, A-7	0	95-100	95-100	85-100	70-80	35-50	15-25
	23-30	Loam	ML, CL	A-4	0	90-100	85-100	60-95	45-65	15-30	5-10
	30-60	Sand and gravel	SP, SP-SM	A-1	0	75-95	70-90	25-35	0-10	---	NP
[1]25:											
Dix part	0-10	Gravelly sandy loam.	SM	A-1, A-2	0	70-90	40-70	35-50	5-15	---	NP
	10-18	Gravelly loamy coarse sand, loamy sand.	SM	A-1, A-2	0	80-90	30-40	30-40	10-20	---	NP
	18-60	Sand and gravel	SP, GP	A-1	0-5	45-85	30-50	25-35	0-5	---	NP
Eckley part	0-3	Sandy loam	SM	A-2	0	80-90	75-85	50-55	25-30	20-40	NP-10
	3-20	Gravelly sandy clay loam, gravelly loam.	SC	A-2, A-6	0	75-95	50-75	30-65	20-45	25-40	10-20
	20-60	Gravelly sand, gravelly loamy sand.	SM, SP-SM, GP-GM, GM	A-1	0	50-85	40-75	15-45	5-15	---	NP
Els:											
26	0-6	Loamy sand	SM	A-2	0	100	100	70-95	15-35	---	NP
	6-60	Fine sand, loamy sand.	SP-SM, SM	A-2, A-3	0	90-100	90-100	70-95	5-30	---	NP
Epping:											
27	0-3	Loam	CL-ML	A-4	0	100	95-100	90-100	70-85	20-30	5-10
	3-11	Loam, silt loam	CL, CL-ML	A-4, A-6	0	100	100	85-95	60-75	20-35	5-15
	11	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Fluvaquentic Haplaquolls:											
28	0-60	Variable	---	---	---	---	---	---	---	---	---
Fluvaquents:											
29	0-60	Variable	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
Glenberg:											
30----------	0-13	Fine sandy loam	SM	A-4, A-2	0	95-100	85-100	60-80	30-45	---	NP
	13-60	Stratified loamy sand to loam.	SM	A-2, A-4	0	90-100	75-100	50-70	25-40	---	NP
Gravel pits:											
31.											
Haverson:											
32, 33, 34, 35----	0-4	Loam----------	ML	A-4	0	95-100	80-100	75-90	50-60	20-35	NP-10
	4-60	Stratified clay loam to sand.	ML	A-4	0	95-100	75-100	75-90	50-60	20-35	NP-10
Haxtun:											
36, 37----------	0-8	Loamy sand------	SM	A-2	0	95-100	80-100	50-75	15-30	---	NP
	8-21	Sandy loam, sandy clay loam.	SM, ML, CL-ML, SM-SC	A-2, A-4	0	95-100	80-100	65-85	30-55	15-30	NP-10
	21-47	Clay loam, loam	CL, CL-ML	A-4, A-6	0	95-100	80-100	80-90	60-80	20-35	5-15
	47-60	Loam, gravelly loam, gravelly sandy loam.	ML, SM, CL-ML, SM-SC	A-2, A-4	0	75-100	60-100	55-85	30-70	10-30	NP-10
38----------	0-14	Sandy loam------	SM	A-2, A-4	0	95-100	80-100	60-75	25-40	---	NP
	14-21	Sandy loam, sandy clay loam.	SM, ML, CL-ML, SM-SC	A-2, A-4	0	95-100	80-100	65-85	30-55	15-30	NP-10
	21-47	Clay loam, loam	CL, CL-ML	A-4, A-6	0	95-100	80-100	80-90	60-80	20-35	5-15
	47-60	Loam, gravelly loam, gravelly sandy loam.	ML, SM, CL-ML, SM-SC	A-2, A-4	0	75-100	60-100	55-85	30-70	10-30	NP-10
Hayford:											
39, 40----------	0-7	Silty clay loam	CL, CL-ML	A-4, A-6	0	95-100	95-100	90-100	75-95	20-40	5-20
	7-22	Silty clay, silty clay loam, clay loam.	CL, CH	A-7, A-6	0	95-100	95-100	90-100	80-95	35-55	20-35
	22-32	Stratified clay loam to fine sandy loam.	CL	A-6	0	95-100	95-100	85-100	60-85	25-35	10-20
	32-60	Gravelly sand, sand.	SP-SM, SM	A-1	0	55-100	50-90	35-50	5-15	---	NP
Heldt:											
41, 42----------	0-60	Clay loam-------	CH, CL	A-7	0	95-100	95-100	95-100	75-95	45-55	25-35
Iliff:											
43----------	0-8	Loam----------	ML, CL-ML	A-4	0	100	95-100	85-100	60-85	20-30	NP-10
	8-22	Silty clay loam, silty clay.	CL, CH	A-6, A-7	0	100	100	95-100	85-95	35-55	15-30
	22-34	Silt loam, loam, clay loam.	CL-ML, CL	A-4, A-6	0	100	95-100	85-100	60-85	20-35	5-15
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Julesburg:											
44, 45----------	0-5	Loamy sand------	SM	A-2, A-4	0	95-100	75-100	50-75	15-40	---	NP
	5-31	Fine sandy loam, sandy loam.	SM, ML	A-2, A-4	0	95-100	75-100	50-85	30-55	15-25	NP-5
	31-60	Sandy loam, loamy sand, fine sand.	SM	A-2, A-4, A-1	0	95-100	75-100	40-85	15-50	---	NP

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
Julesburg:											
46, 47, 48--------	0-10	Fine sandy loam	SM, ML	A-2, A-4	0	95-100	75-100	45-85	25-55	---	NP
	10-31	Fine sandy loam, sandy loam.	SM, ML	A-2, A-4	0	95-100	75-100	50-85	30-55	15-25	NP-5
	31-60	Sandy loam, loamy sand, fine sand.	SM	A-2, A-4	0	95-100	75-100	40-85	15-50	---	NP
[1]49:											
Julesburg part--	0-10	Sandy loam------	SM, ML	A-2, A-4	0	95-100	75-100	45-85	25-55	---	NP
	10-31	Fine sandy loam, sandy loam.	SM, ML	A-2, A-4	0	95-100	75-100	50-85	30-55	15-25	NP-5
	31-60	Sandy loam, loamy sand, fine sand.	SM	A-2, A-4	0	95-100	75-100	40-85	15-50	---	NP
Eckley part-----	0-3	Gravelly sandy loam.	SM	A-2, A-1	0	70-80	50-75	20-45	15-30	20-40	NP-10
	3-20	Gravelly sandy clay loam, gravelly loam.	SC	A-2, A-6	0	75-95	50-75	30-65	20-45	25-40	10-20
	20-60	Gravelly sand, gravelly loamy sand.	SM, SP-SM, GP-GM, GM	A-1	0	50-85	40-75	15-45	5-15	---	NP
Keith:											
50----------	0-6	Loam----------	ML	A-4	0	100	100	95-100	85-95	25-35	NP-10
	6-25	Silt loam, silty clay loam.	CL	A-6	0	100	100	95-100	85-100	30-40	10-20
	25-60	Silt loam-------	ML	A-4	0	100	100	95-100	85-95	25-35	NP-10
Kim:											
51----------	0-4	Loam----------	ML, SM	A-4	0-5	80-100	75-100	60-90	45-75	20-35	NP-5
	4-60	Loam, clay loam	CL, CL-ML	A-4, A-6	0-5	80-100	75-100	70-95	60-85	25-40	5-15
Kuma:											
52----------	0-8	Loam----------	CL, CL-ML	A-4, A-6	0	100	95-100	90-100	70-90	25-40	5-15
	8-32	Silty clay loam, silt loam, loam.	CL	A-6	0	100	95-100	90-100	85-95	30-40	10-15
	32-60	Silt loam, loam	CL, CL-ML	A-4, A-6	0	95-100	95-100	90-100	85-95	25-40	5-15
Kutch:											
53, 54----------	0-3	Clay loam-------	CL	A-6, A-7	0-10	95-100	90-100	90-100	70-80	30-50	20-30
	3-37	Clay, clay loam	CH, CL	A-7	0-5	95-100	90-100	90-100	75-95	45-60	20-35
	37	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Lebsack:											
55----------	0-6	Silty clay loam	CL	A-7, A-6	0	100	95-100	90-100	75-95	30-50	10-30
	6-34	Silty clay loam, silty clay, clay.	CL, CH	A-7	0	100	95-100	95-100	85-95	40-60	15-40
	34-60	Silty clay loam, silty clay, clay.	CL, CH	A-7, A-6	0	100	95-100	95-100	80-95	35-60	15-30
56, 57----------	0-9	Clay loam-------	CL	A-6, A-7	0	100	95-100	90-100	75-95	25-50	10-30
	9-34	Silty clay loam, silty clay.	CL, CH	A-7	0	100	95-100	95-100	85-95	40-70	15-40
	34-60	Silty clay loam, silty clay, clay.	CL, CH	A-6, A-7	0	100	95-100	95-100	80-95	25-60	10-30
Loveland:											
58----------	0-13	Clay loam-------	CL	A-6	0-5	90-100	80-100	80-90	50-80	25-40	10-20
	13-34	Clay loam-------	CL	A-6	0-5	90-100	85-100	80-90	65-80	25-40	10-20
	34-60	Very gravelly sand, gravelly sand.	GP, SP	A-1	0-10	50-80	30-70	20-40	0-5	---	NP

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
Manter:											
59, 60	0-6	Loamy sand	SM	A-2 A-4, A-1	0	95-100	75-100	45-85	15-45	---	NP
	6-24	Fine sandy loam, sandy loam.	SM	A-2, A-4	0	95-100	75-100	50-85	30-55	15-25	NP-5
	24-60	Sandy loam, loamy sand.	SM	A-2, A-4, A-1	0	95-100	75-100	40-85	15-50	---	NP
61, 62, 63	0-10	Sandy loam	SM, ML	A-2, A-4	0	95-100	75-100	45-85	25-55	---	NP
	10-24	Fine sandy loam, sandy loam.	SM, ML	A-2, A-4	0	95-100	75-100	50-85	30-55	15-25	NP-5
	24-60	Sandy loam, loamy sand.	SM	A-2, A-4, A-1	0	95-100	75-100	40-85	15-50	---	NP
64, 65	0-10	Sandy loam	SM, ML	A-2, A-4	0	95-100	75-100	45-85	25-55	---	NP
	10-24	Sandy loam, fine sandy loam.	SM, ML, SM-SC, CL-ML	A-2, A-4	0	95-100	75-100	50-85	30-55	15-25	NP-5
	24-60	Sandy loam, loamy sand.	SM	A-2, A-4, A-1	0	95-100	75-100	40-85	15-50	---	NP
Manzanola:											
66	0-3	Clay loam	CL, CL-ML	A-4, A-6	0-5	95-100	80-95	70-95	55-75	25-40	5-20
	3-11	Clay loam, clay	CL	A-6, A-7	0-5	95-100	90-100	85-95	65-85	35-50	20-30
	11-60	Clay loam, loam	CL, ML	A-6, A-4	0-5	95-100	90-100	85-95	60-80	30-40	5-20
Midway:											
67	0-10	Clay loam	CL, CH	A-6, A-7	0	100	100	90-100	80-95	45-60	20-35
	10	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Mitchell:											
68	0-5	Loam	ML	A-4	0	100	100	85-95	55-75	25-35	NP-10
	5-60	Loam, very fine sandy loam, silt loam.	ML	A-4	0	100	100	85-100	55-90	25-35	NP-10
[1]69:											
Mitchell part	0-5	Loam	ML	A-4	0	100	100	85-95	55-75	25-35	NP-10
	5-60	Loam, very fine sandy loam, silt loam.	ML	A-4	0	100	100	85-100	55-90	25-35	NP-10
Keota part	0-4	Loam	ML	A-4	0	95-100	95-100	85-95	60-80	20-30	NP-5
	4-24	Silt loam, loam	ML	A-4	0	95-100	95-100	85-95	85-95	20-30	NP-5
	24	Weathered bedrock.	---	---	---	---	---	---	---	---	---
[1]70:											
Mitchell part	0-5	Loam	ML	A-4	0	100	100	85-95	55-75	25-35	NP-10
	5-60	Loam, very fine sandy loam, silt loam.	ML	A-4	0	100	100	85-100	55-90	25-35	NP-10
Keota part	0-4	Loam	ML	A-4	0	95-100	95-100	85-95	60-80	20-30	NP-5
	4-24	Silt loam, loam	ML	A-4	0	95-100	95-100	85-95	85-95	20-30	NP-5
	24	Weathered bedrock.	---	---	---	---	---	---	---	---	---
[1]71:											
Mitchell part	0-5	Loam	ML	A-4	0	100	100	85-95	50-75	25-35	NP-10
	5-60	Loam, very fine sandy loam, silt loam.	ML	A-4	0	100	100	85-100	50-90	25-35	NP-10

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
Mitchell:											
Norka part------	0-4	Loam----------	ML, CL-ML	A-4	0	100	95-100	85-95	60-85	20-30	NP-10
	4-12	Silty clay loam, loam, clay loam.	CL, CL-ML	A-4, A-6	0	100	95-100	95-100	85-95	25-35	5-15
	12-60	Loam, silt loam, very fine sandy loam.	ML, CL-ML	A-4	0	100	95-100	90-95	85-95	15-25	NP-10
Mosher:											
72----------	0-5	Loam----------	ML, CL-ML	A-4	0	100	100	85-100	60-75	20-30	NP-10
	5-17	Clay loam, clay	CL, CH	A-7	0	100	95-100	85-95	80-90	40-60	20-35
	17-60	Stratified loamy sand to clay.	ML, SM	A-4	0	100	80-100	70-90	45-70	---	NP
73----------	0-5	Clay----------	CL	A-7, A-6	0	100	100	90-100	85-95	30-50	10-30
	5-17	Clay loam, clay	CL, CH	A-7	0	100	95-100	85-95	80-90	40-60	20-35
	17-60	Stratified loamy sand to clay.	ML, SM	A-4	0	100	80-100	70-90	45-70	---	NP
Norka:											
74----------	0-4	Loam----------	ML, CL-ML	A-4	0	100	95-100	85-95	60-85	20-30	NP-10
	4-12	Silty clay loam, loam, clay loam.	CL, CL-ML	A-4	0	100	95-100	95-100	85-95	30-40	5-15
	12-60	Loam, silt loam, very fine sandy loam.	ML, CL-ML	A-4	0	100	95-100	90-95	85-95	15-25	NP-10
[1]75:											
Norka part------	0-4	Loam----------	ML, CL-ML	A-4	0	100	95-100	85-95	60-85	20-30	NP-10
	4-12	Silty clay loam, loam, clay loam.	CL, CL-ML	A-4, A-6	0	100	95-100	95-100	85-95	30-40	5-15
	12-60	Loam, silt loam, very fine sandy loam.	ML, CL-ML	A-4	0	100	95-100	90-95	85-95	15-25	NP-10
Ulysses part----	0-5	Loam----------	CL-ML	A-4	0	100	100	90-100	85-100	25-40	5-10
	5-14	Silt loam, silty clay loam.	CL	A-6	0	100	100	90-100	85-100	25-40	10-20
	14-60	Silt loam-------	CL-ML	A-4	0	100	100	90-100	85-100	25-35	5-10
Nunn:											
76, 77, 78, 79----	0-6	Loam----------	CL, SC	A-6	0-5	95-100	80-95	70-95	45-75	25-40	10-20
	6-26	Clay loam, clay	CL, CH	A-6, A-7	0-5	95-100	90-100	85-95	65-75	35-60	20-35
	26-60	Clay loam, loam, gravelly sandy loam.	CL, SC, CL-ML, SM-SC	A-4, A-6	0-5	80-100	80-100	60-90	35-75	15-40	5-20
80, 81----------	0-6	Clay loam-------	CL	A-6	0-5	95-100	80-95	70-95	50-75	25-40	10-20
	6-26	Clay loam, clay	CL, CH	A-6, A-7	0-5	95-100	90-100	85-95	65-75	35-60	20-35
	26-60	Clay loam, loam, gravelly sandy loam.	CL, SC, CL-ML, SM-SC	A-4, A-6	0-5	80-100	80-100	60-90	35-75	15-40	5-20
82----------	0-10	Clay loam-------	CL	A-6	0-5	95-100	85-100	75-95	50-75	25-40	10-20
	10-31	Clay loam, clay	CL, CH	A-6, A-7	0-5	95-100	90-100	85-95	65-75	35-60	20-35
	31-60	Clay loam, loam, gravelly sandy loam.	CL, SC, CL-ML, SM-SC	A-6, A-4	0-5	80-100	60-100	60-90	35-75	15-40	5-20
83----------	0-10	Clay loam-------	CL	A-6	0-5	95-100	85-100	75-95	50-75	25-40	10-20
	10-31	Clay loam, clay	CL, CH	A-6, A-7	0-5	95-100	90-100	85-95	65-75	35-60	20-35
	31-60	Clay loam, loam, gravelly sandy loam.	CL, SC, CL-ML, SM-SC	A-6, A-4	0-5	80-100	60-100	60-90	35-75	15-40	5-20

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
Olney:											
84, 85	0-3	Sandy loam	SM	A-2	0	95-100	90-100	70-95	20-35	15-25	NP-5
	3-11	Sandy clay loam	SC, CL	A-6	0	95-100	90-100	80-100	40-55	20-40	10-20
	11-26	Sandy loam, sandy clay loam, fine sandy loam.	SC, SM-SC, CL, CL-ML	A-4, A-6	0	95-100	95-100	75-95	35-55	20-35	5-15
	26-60	Fine sandy loam, loamy fine sand.	SM	A-2	0	95-100	95-100	70-95	20-35	---	NP
Peetz:											
86	0-9	Gravelly sandy loam.	SM	A-1, A-2	0-5	75-95	50-75	25-45	15-30	---	NP
	9-28	Very gravelly sandy loam, gravelly coarse sandy loam.	SM, GM	A-1, A-2	0-5	50-75	30-75	20-45	10-30	---	NP
	28-60	Very gravelly sand, very gravelly loamy sand.	GP, GP-GM	A-1	0-10	35-45	30-40	15-20	0-10	---	NP
Platner:											
87	0-7	Sandy loam	SM	A-4	0	90-100	75-100	65-95	35-50	---	NP
	7-18	Clay, clay loam	CL, CH	A-7, A-6	0	90-100	85-100	80-100	60-95	35-60	15-30
	18-26	Loam, clay loam	CL	A-6	0	90-100	75-100	70-95	60-80	30-40	10-20
	26-60	Gravelly sandy loam, sandy loam, loam.	SM-SC, SC, CL-ML, CL	A-2, A-4, A-6	0	75-100	60-95	55-70	30-60	20-40	5-20
88, 89, 90	0-7	Loam	ML	A-4	0	90-100	75-100	65-95	50-70	20-35	NP-5
	7-18	Clay, clay loam	CL, CH	A-7, A-6	0	90-100	85-100	80-100	60-95	35-60	15-30
	18-26	Loam, clay loam	CL	A-6	0	90-100	75-100	70-95	60-80	30-40	10-20
	26-60	Gravelly sandy loam, sandy loam, loam.	SM-SC, SC, CL-ML, CL	A-2, A-4, A-6	0	75-100	60-95	55-70	30-60	20-40	5-20
[1]91:											
Platner part	0-7	Loam	ML	A-4	0	90-100	75-100	65-95	50-70	20-35	NP-5
	7-18	Clay, clay loam	CL, CH	A-7, A-6	0	90-100	85-100	80-100	60-95	35-60	15-30
	18-26	Loam, clay loam	CL	A-6	0	90-100	75-100	70-95	60-80	30-40	10-20
	26-60	Gravelly sandy loam, sandy loam, loam.	SM-SC, SC, CL-ML, CL	A-2, A-4, A-6	0	75-100	60-95	55-70	30-60	20-40	5-20
Rago part	0-8	Loam	ML	A-4	0	100	95-100	90-100	55-95	20-40	NP-10
	8-26	Silty clay loam, silty clay, clay loam.	CL	A-6, A-7	0	100	95-100	95-100	85-95	30-50	10-20
	26-60	Silt loam, loam, sandy loam.	ML, SM	A-4	0	95-100	90-100	80-100	35-95	20-30	NP-5
Dacono part	0-4	Loam	ML, CL-ML	A-4	0	85-100	75-100	75-95	70-80	20-30	NP-10
	4-13	Clay loam, clay, gravelly clay loam.	CL	A-6, A-7	0	75-100	60-100	55-95	50-85	35-45	20-30
	13-28	Sandy clay loam, loam.	CL, SC	A-6	0	75-100	60-100	50-95	40-80	25-40	10-20
	28-60	Very gravelly sand.	SP, GP	A-1	0	35-80	5-50	5-40	0-5	---	NP

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
Rago:											
92----------	0-8	Loam----------	ML	A-4	0	100	95-100	90-100	55-95	20-40	NP-10
	8-26	Silty clay loam, silty clay, clay loam.	CL	A-6, A-7	0	100	95-100	95-100	85-95	30-50	10-20
	26-60	Silt loam, loam, sandy loam.	ML, SM	A-4	0	95-100	90-100	80-100	35-95	20-30	NP-5
93----------	0-8	Clay loam--------	CL	A-6	0	100	95-100	80-100	70-80	25-40	10-20
	8-26	Silty clay loam, silty clay, clay loam.	CL	A-6, A-7	0	100	95-100	95-100	85-95	30-50	10-20
	26-60	Silt loam, loam, sandy loam.	ML, SM	A-4	0	95-100	90-100	80-100	35-95	20-30	NP-5
Renohill:											
[1]94:											
Renohill part---	0-5	Loam----------	CL	A-6	0	85-100	80-100	80-95	70-80	25-40	10-20
	5-20	Clay, clay loam	CL, CH	A-7, A-6	0	95-100	90-100	90-100	75-95	35-65	20-35
	20-27	Clay loam--------	CL	A-6	0	85-100	80-100	80-95	70-80	30-40	15-25
	27	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Shingle part----	0-2	Loam----------	ML	A-4	0-5	75-100	75-100	70-95	55-75	25-35	NP-10
	2-10	Clay loam, loam	CL	A-6	0	75-100	75-100	65-100	50-80	30-40	10-20
	10	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop:											
[1]95:											
Rock outcrop part.											
Argiustolls part	0-24	Variable--------	---	---	---	---	---	---	---	---	---
	24	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Rosebud:											
[1]96, [1]97:											
Rosebud part----	0-5	Loam----------	CL-ML	A-4	0	95-100	80-100	80-95	55-75	20-30	5-10
	5-33	Clay loam, loam	CL	A-6	0	95-100	80-100	80-95	60-80	30-40	10-20
	33	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Escabosa part---	0-10	Loam----------	CL-ML, CL	A-4, A-6	0-5	95-100	95-100	85-95	55-75	20-35	5-15
	10-32	Gravelly loam, loam, clay loam.	CL-ML, GM-GC, CL, GC	A-4, A-6	0-10	65-95	60-95	50-85	40-70	25-40	5-20
	32	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
[1]98:											
Rosebud part----	0-5	Loam----------	CL-ML	A-4	0	95-100	80-100	80-95	55-75	20n30	5-10
	5-33	Clay loam, loam	CL	A-6	0	95-100	80-100	80-95	60-80	30-40	10-20
	33	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Escabosa part---	0-10	Loam----------	CL-ML, CL	A-4, A-6	0-5	95-100	95-100	85-95	55-75	20-35	5-15
	10-32	Gravelly loam, loam, clay loam.	CL-ML, GM-GC, CL, GC	A-4, A-6	0-10	65-95	60-95	50-85	40-70	25-40	5-20
	32	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
Rosebud:											
[1]98:											
Iliff part------	0-8	Loam----------	ML, CL-ML	A-4	0	100	95-100	85-100	60-85	20-30	NP-10
	8-22	Silty clay loam, silty clay.	CL, CH	A-6, A-7	0	100	100	95-100	85-95	35-55	15-30
	22-34	Silt loam, loam, clay loam.	CL-ML, CL	A-4, A-6	0	100	95-100	85-100	60-85	20-35	5-15
	34	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Satanta:											
99, 100, 101------	0-7	Loam----------	ML, CL-ML	A-4	0	100	95-100	80-100	50-85	20-35	NP-10
	7-20	Loam, clay loam, sandy clay loam.	SC, CL	A-6	0	100	95-100	50-85	45-75	30-40	10-25
	20-60	Loam, clay loam	CL-ML, CL	A-4, A-6	0	100	95-100	80-100	50-85	20-35	5-15
102, 103----------	0-13	Loam----------	ML, CL-ML	A-4	0	100	95-100	80-100	50-85	20-30	NP-10
	13-23	Loam, clay loam	CL	A-6	0	100	95-100	60-85	50-75	25-40	10-15
	23-60	Loam, clay loam	CL, CL-ML	A-4, A-6	0	100	95-100	80-95	50-80	25-35	5-15
Shingle:											
104----------	0-2	Loam----------	ML	A-4	0-5	75-100	75-100	70-95	55-75	25-35	NP-10
	2-10	Clay loam, loam	CL	A-6	0	75-100	75-100	65-100	50-80	30-40	10-20
	10	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Stoneham:											
105----------	0-4	Sandy loam------	SM, ML	A-4, A-2	0	90-100	75-100	60-85	30-55	10-20	NP-5
	4-13	Clay loam, sandy clay loam, loam.	CL, SC, CL-ML, SM-SC	A-6, A-4	0	95-100	90-100	80-100	35-80	25-40	5-20
	13-60	Loam, sandy loam	CL, SC, SM-SC, CL-ML	A-4, A-6, A-2	0	95-100	75-100	60-95	30-75	15-30	5-15
106, 107----------	0-4	Loam----------	ML, CL-ML	A-4	0	90-100	75-100	65-95	60-75	20-30	5-10
	4-13	Clay loam, sandy clay loam, loam.	CL, SC, CL-ML, SM-SC	A-6, A-4	0	95-100	90-100	80-100	35-80	25-40	5-20
	13-60	Loam, sandy loam	CL, SC, SM-SC, CL-ML	A-4, A-6, A-2	0	95-100	75-100	60-95	30-75	15-30	5-15
[1]108:											
Stoneham part---	0-4	Loam----------	ML, CL-ML	A-4	0	90-100	75-100	65-95	60-75	20-30	5-10
	4-13	Clay loam, sandy clay loam, loam.	CL, SC, CL-ML, SM-SC	A-6, A-4	0	95-100	90-100	80-100	35-80	25-40	5-20
	13-60	Loam, sandy loam	CL, SC, SM-SC, CL-ML	A-4, A-6, A-2	0	95-100	75-100	60-95	30-75	15-30	5-15
Cushman part----	0-3	Loam----------	ML, CL-ML	A-4	0	100	85-100	85-95	60-75	20-30	NP-10
	3-15	Clay loam-------	CL	A-6	0	100	90-100	85-95	70-80	25-35	10-15
	15-22	Loam----------	CL-ML	A-4	0	100	85-100	85-95	60-75	25-30	5-10
	22	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Thedalund:											
[1]109:											
Thedalund part--	0-14	Very fine sandy loam.	CL-ML, SM-SC	A-4	0-5	80-100	75-100	70-95	40-75	20-30	5-10
	14-31	Clay loam, loam, very fine sandy loam.	CL-ML, CL	A-6, A-4	0-5	80-100	75-100	70-95	50-80	25-35	5-15
	31	Weathered bedrock.	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
Thedalund:											
[1]109:											
Kim part	0-4	Loam	ML, SM	A-4	0-5	80-100	75-100	60-90	45-75	20-35	NP-5
	4-60	Loam, clay loam	CL, CL-ML	A-4, A-6	0-5	80-100	75-100	70-95	60-85	25-40	5-15
Shingle part	0-2	Loam	ML	A-4	0-5	75-100	75-100	70-95	55-75	25-35	NP-10
	2-10	Clay loam, loam	CL	A-6	0	75-100	75-100	65-100	50-80	30-40	10-20
	10	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Ulysses:											
[1]110:											
Ulysses part	0-5	Loam	CL-ML	A-4	0	100	100	90-100	85-100	25-40	5-10
	5-14	Silt loam, silty clay loam.	CL	A-6	0	100	100	90-100	85-100	25-40	10-20
	14-60	Silt loam	CL-ML	A-4	0	100	100	90-100	85-100	25-35	5-10
Norka part	0-4	Loam	ML, CL-ML	A-4	0	100	95-100	85-95	60-85	20-30	NP-10
	4-12	Silty clay loam, loam, clay loam.	CL-ML, CL	A-4	0	100	95-100	95-100	85-95	30-40	5-15
	12-60	Loam, silt loam, very fine sandy loam.	ML, CL-ML	A-4	0	100	95-100	90-95	85-95	15-25	NP-10
[1]111:											
Ulysses part	0-5	Loam	CL-ML	A-4	0	100	100	90-100	85-100	25-40	5-10
	5-14	Silt loam, silty clay loam.	CL	A-6	0	100	100	90-100	85-100	25-40	10-20
	14-60	Silt loam	CL-ML	A-4	0	100	100	90-100	85-100	25-35	5-10
Norka part	0-4	Loam	ML, CL-ML	A-4	0	100	95-100	85-95	60-85	20-30	NP-10
	4-12	Silty clay loam, loam, clay loam.	CL-ML, CL	A-4	0	100	95-100	95-100	85-95	30-40	5-15
	12-60	Loam, silt loam, very fine sandy loam.	ML, CL-ML	A-4	0	100	95-100	90-95	85-95	15-25	NP-10
Colby part	0-4	Loam	CL-ML	A-4	0	100	100	90-100	85-100	25-40	5-10
	4-60	Silt loam, loam	CL-ML	A-4	0	100	100	90-100	85-100	25-35	5-10
Ustic Torriorthents:											
112	0-60	Variable	---	---	---	---	---	---	---	---	---
Valent:											
113, 114	0-12	Sand	SP-SM, SM	A-2, A-3	0	100	100	70-90	5-20	---	NP
	12-60	Fine sand, sand	SP-SM, SM	A-2, A-3	0	100	95-100	75-90	5-20	---	NP
115	0-12	Loamy sand	SM	A-2	0	100	100	80-95	15-30	---	NP
	12-60	Fine sand, sand	SP-SM, SM	A-2, A-3	0	100	95-100	75-90	5-20	---	NP
Vona:											
116	0-3	Loamy sand	SM	A-2	0	100	90-100	60-90	15-30	---	NP
	3-16	Fine sandy loam, sandy loam.	SM	A-2, A-4	0	100	90-100	60-90	30-45	---	NP
	16-60	Sandy loam, loamy sand.	SM	A-2	0	100	90-100	50-85	15-30	---	NP
117	0-3	Fine sandy loam	SM	A-2, A-4	0	100	90-100	60-90	30-45	---	NP
	3-16	Fine sandy loam, sandy loam.	SM	A-2, A-4	0	100	90-100	60-90	30-45	---	NP
	16-60	Sandy loam, loamy sand.	SM	A-2	0	100	90-100	50-85	15-30	---	NP

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct					Pct	
Wages:											
118, 119, 120	0-4	Loam	CL-ML	A-4	0	90-100	75-100	65-90	60-75	20-30	5-10
	4-14	Clay loam, sandy clay loam, loam.	CL, SC	A-6	0	95-100	90-100	75-95	35-75	25-40	15-25
	14-60	Loam, sandy loam	CL, CL-ML, SC, SM-SC	A-4, A-6	0	95-100	75-100	60-95	35-70	15-30	5-15
[1]121:											
Wages part	0-4	Loam	CL-ML	A-4	0	90-100	75-100	65-90	60-75	20-30	5-10
	4-14	Clay loam, sandy clay loam, loam.	CL, SC	A-6	0	95-100	90-100	75-95	35-75	25-40	15-25
	14-60	Loam, sandy loam	CL, CL-ML, SC, SM-SC	A-4, A-6	0	95-100	75-100	60-95	35-70	15-30	5-15
Altvan part	0-8	Loam	CL-ML	A-4	0	90-100	85-100	60-95	50-75	15-30	5-10
	8-23	Clay loam, loam	CL	A-6, A-7	0	95-100	95-100	85-100	70-80	35-50	15-25
	23-30	Loam	CL-ML	A-4	0	90-100	85-100	60-95	50-60	20-30	5-10
	30-60	Sand and gravel	SP, SP-SM	A-1	0	75-95	70-90	25-35	0-10	---	NP
[1]122:											
Wages part	0-4	Fine sandy loam	SM, ML, SM-SC, CL-ML	A-4, A-2	0	90-100	75-100	60-85	30-65	15-25	NP-5
	4-14	Clay loam, sandy clay loam, loam.	CL, SC	A-6	0	95-100	90-100	75-95	35-75	25-40	15-25
	14-60	Loam, sandy loam	CL, CL-ML, SC, SM-SC	A-4, A-6	0	95-100	75-100	60-95	35-70	15-30	5-15
Manter part	0-10	Sandy loam	SM, ML	A-2, A-4	0	95-100	75-100	45-85	25-55	---	NP
	10-24	Fine sandy loam, sandy loam.	SM, ML	A-2, A-4	0	95-100	75-100	50-85	30-55	15-25	NP-5
	24-60	Sandy loam, loamy sand.	SM	A-2, A-4, A-1	0	95-100	75-100	40-85	15-50	---	NP
[1]123:											
Wages part	0-4	Loam	CL-ML	A-4	0	90-100	75-100	65-90	60-75	20-30	5-10
	4-14	Clay loam, sandy clay loam, loam.	CL, SC	A-6	0	95-100	90-100	75-95	35-75	25-40	15-25
	14-60	Loam, sandy loam	CL, CL-ML, SC, SM-SC	A-4, A-6	0	95-100	75-100	60-95	35-70	15-30	5-15
Rosebud part	0-5	Loam	CL-ML	A-4	0	95-100	80-100	80-95	55-75	20-30	5-10
	5-33	Clay loam, loam	CL	A-6	0	95-100	80-100	80-95	60-80	30-40	10-20
	33	Weathered bedrock.	---	---	---	---	---	---	---	---	---
[1]124:											
Wages part	0-4	Loam	CL-ML	A-4	0	90-100	75-100	65-90	60-75	20-30	5-10
	4-14	Clay loam, sandy clay loam, loam.	CL, SC	A-6	0	95-100	90-100	75-95	35-75	25-40	15-25
	14-60	Loam, sandy loam	CL, CL-ML, SC, SM-SC	A-4, A-6	0	95-100	75-100	60-95	35-70	15-30	5-15

See footnotes at end of table.

TABLE 13.--ENGINEERING PROPERTIES AND CLASSIFICATIONS--Continued

Soil name and map symbol	Depth	USDA texture	Classification		Frag- ments > 3 inches	Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO		4	10	40	200		
	In				Pct					Pct	
Wages:											
[1]124:											
Rosebud part----	0-5	Loam----------	CL-ML	A-4	0	95-100	80-100	80-95	55-75	20-30	5-10
	5-33	Clay loam, loam	CL	A-6	0	95-100	80-100	80-95	60-80	30-40	10-20
	33	Weathered bedrock.	---	---	---	---	---	---	---	---	---
Weld:											
125, 126----------	0-7	Loam----------	ML, CL-ML	A-4	0	100	95-100	85-100	60-85	20-30	NP-10
	7-18	Silty clay loam, silty clay.	CL	A-6, A-7	0	100	100	95-100	85-95	35-50	15-30
	18-32	Silt loam, loam	CL-ML, CL	A-4, A-6	0	100	95-100	85-100	60-85	20-35	5-15
	32-60	Silt loam, loam, sandy loam.	ML, CL-ML, SM, SM-SC	A-4	0	100	75-100	60-100	35-85	20-30	NP-10
Westplain:											
127----------	0-17	Silty clay loam	CL	A-6, A-7	0-5	90-100	75-95	70-85	60-80	30-50	15-25
	17-60	Very gravelly sand.	GP-GM, SP-SM	A-1	0-5	35-70	20-50	15-40	5-10	---	NP
[1]128:											
Westplain part--	0-17	Silty clay loam	CL	A-6, A-7	0-5	90-100	75-95	70-85	60-80	30-50	15-25
	17-60	Very gravelly sand.	GP-GM, SP-SM	A-1	0-5	35-70	20-50	15-40	5-10	---	NP
Alda part-------	0-10	Loam----------	ML	A-4	0	95-100	95-100	85-95	50-75	20-35	NP-5
	10-34	Fine sandy loam	SM	A-2, A-4	0	95-100	95-100	70-85	30-50	15-20	NP-5
	34-60	Sand and gravel	SP, GP	A-1, A-3	0	30-90	20-85	20-55	0-5	---	NP

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS

[Dashes indicate data were not available. The symbol < means less than; > means greater than. The erosion tolerance factor (T) is for the entire profile. Absence of an entry means data were not estimated]

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Albinas:											
1	0-12	0.6-2.0	0.15-0.20	6.6-7.8	<2	Low	High	Low	0.32	5	6
	12-29	0.6-2.0	0.14-0.21	6.6-7.8	<2	Moderate	High	Low	0.28		
	29-60	0.6-2.0	0.16-0.18	7.9-9.0	<2	Low	High	Low	0.43		
Alda:											
2, 3	0-10	0.6-2.0	0.20-0.22	6.1-7.8	<2	Low	Moderate	Low	---	---	6
	10-34	2.0-6.0	0.15-0.17	6.6-8.4	<2	Low	High	Low	---		
	34-60	>20.0	0.02-0.04	6.6-8.4	<2	Low	High	Low	---		
Altvan:											
[1]4:											
Altvan part	0-8	0.6-2.0	0.20-0.24	6.1-7.3	<2	Low	Moderate	Low	0.28	3	5
	8-23	0.6-2.0	0.15-0.17	7.4-8.4	<2	Moderate	High	Low	0.28		
	23-30	0.6-2.0	0.17-0.19	7.4-9.0	<2	Low	High	Low	0.28		
	30-60	>20	0.02-0.04	7.4-9.0	<2	Low	High	Low	0.10		
Eckley part	0-3	2.0-6.0	0.09-0.15	6.6-7.3	<2	Low	Moderate	Low	0.17	2	5
	3-20	0.6-2.0	0.13-0.18	6.6-7.3	<2	Moderate	High	Low	0.15		
	20-60	>6.0	0.03-0.06	6.6-7.8	<2	Low	High	Low	0.10		
[1]5:											
Altvan part	0-8	0.6-2.0	0.20-0.24	6.1-7.3	<2	Low	Moderate	Low	0.28	3	5
	8-23	0.6-2.0	0.15-0.17	7.4-8.4	<2	Moderate	High	Low	0.28		
	23-30	0.6-2.0	0.17-0.19	7.4-9.0	<2	Low	High	Low	0.28		
	30-60	>20	0.02-0.04	7.4-9.0	<2	Low	High	Low	0.10		
Eckley part	0-3	2.0-6.0	0.09-0.15	6.6-7.3	<2	Low	Moderate	Low	0.17	2	5
	3-20	0.6-2.0	0.13-0.18	6.6-7.3	<2	Moderate	High	Low	0.15		
	20-60	>6.0	0.03-0.06	6.6-7.8	<2	Low	High	Low	0.10		
Aquolls:											
6	0-60	---	---	---	---	---	---	---	---	---	---
Argiustolls:											
7	0-60	---	---	---	---	---	---	---	---	---	---
[1]8:											
Argiustolls part	0-60	---	---	---	---	---	---	---	---	---	---
Rock outcrop part.											
Arvada:											
9	0-4	0.6-2.0	0.13-0.15	7.4-9.0	<4	Low	High	Moderate	0.24	5	3
	4-11	<0.06	0.07-0.09	>8.5	<4	High	High	Moderate	0.32		
	11-60	0.06-0.2	0.09-0.11	>8.5	<8	High	High	Moderate	0.32		
Ascalon:											
10, 11, 12	0-7	0.6-6.0	0.11-0.16	6.6-7.8	<2	Low	Moderate	Low	0.17	5	3
	7-14	0.6-2.0	0.13-0.15	6.6-7.8	<2	Moderate	Moderate	Low	0.24		
	14-30	0.6-6.0	0.11-0.15	7.9-8.4	<2	Moderate	High	Low	0.24		
	30-60	2.0-6.0	0.06-0.13	7.9-8.4	<2	Low	High	Low	0.17		
Bankard:											
14	0-3	6.0-20	0.05-0.08	7.4-8.4	<2	Low	Moderate	Low	0.10	5	2
	3-60	6.0-20	0.05-0.08	7.4-8.4	<2	Low	High	Low	0.10		
Bayard:											
[1]15:											
Bayard part	0-12	6.0-20	0.08-0.10	7.4-7.8	<2	Low	Moderate	Low	0.15	5	2
	12-60	2.0-6.0	0.12-0.14	7.8-8.4	<2	Low	High	Low	0.20		
Canyon part	0-5	0.6-2.0	0.15-0.18	7.4-8.4	<2	Low	Moderate	Low	0.24	2	4L
	5-11	0.6-2.0	0.13-0.18	7.4-8.4	<2	Low	High	Low	0.32		
	11	---	---	---	---	---	---	---	---		

See footnotes at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Bridgeport:											
16	0-10	0.6-2.0	0.20-0.24	7.4-8.4	<2	Low	Moderate	Low	0.32	5	6
	10-60	0.6-2.0	0.17-0.22	7.4-8.4	<2	Low	High	Low	0.43		
Canyon:											
17	0-5	0.6-2.0	0.15-0.18	7.4-8.4	<2	Low	Moderate	Low	0.24	2	4L
	5-11	0.6-2.0	0.13-0.18	7.4-8.4	<2	Low	High	Low	0.32		
	11	---	---	---	---	---	---	---	---		
Chappell:											
18	0-12	2.0-6.0	0.13-0.18	6.1-7.3	<2	Low	Moderate	Low	0.20	3	3
	12-30	2.0-6.0	0.12-0.17	6.1-8.4	<2	Low	High	Low	0.20		
	30-41	6.0-20	0.02-0.04	6.6-8.4	<2	Low	High	Low	0.10		
	41-60	>20	0.02-0.04	6.6-8.4	<2	Low	High	Low	0.10		
Colby:											
19	0-4	0.6-2.0	0.20-0.24	6.6-8.4	<2	Low	Moderate	Low	0.37	5	4L
	4-60	0.6-2.0	0.17-0.22	7.4-8.4	<2	Low	High	Low	0.37		
Dacono:											
20	0-4	0.2-0.6	0.19-0.21	6.6-7.8	<2	Low	Moderate	Low	0.24	3	5
	4-13	0.2-0.6	0.15-0.21	7.4-8.4	<2	High	High	Low	0.24		
	13-28	0.2-0.6	0.13-0.18	7.4-8.4	<2	Moderate	High	Low	0.15		
	28-60	>20	0.03-0.05	7.4-8.4	<2	Low	High	Low	0.10		
Dailey:											
21, 22	0-16	6.0-20	0.05-0.12	6.6-7.3	<2	Low	Moderate	Low	0.15	5	2
	16-60	>6.0	0.03-0.10	6.6-7.8	<2	Low	High	Low	0.15		
23	0-24	6.0-20	0.09-0.12	6.6-7.3	<2	Low	Moderate	Low	0.15	5	2
	24-37	6.0-20	0.07-0.10	6.6-7.8	<2	Low	High	Low	0.15		
	37-60	2.0-6.0	0.10-0.13	7.4-7.8	<2	Low	High	Low	0.20		
Dix:											
[1]24:											
Dix part	0-10	6.0-20	0.10-0.12	6.6-7.8	<2	Low	Moderate	Low	0.15	2	3
	10-18	>6.0	0.02-0.04	6.6-7.8	<2	Low	High	Low	0.15		
	18-60	>20	0.02-0.04	6.6-7.8	<2	Low	High	Low	0.15		
Altvan part	0-8	0.6-2.0	0.20-0.24	6.1-7.3	<2	Low	Moderate	Low	0.28	3	5
	8-23	0.6-2.0	0.15-0.17	7.4-8.4	<2	Moderate	High	Low	0.28		
	23-30	0.6-2.0	0.17-0.19	7.4-9.0	<2	Low	High	Low	0.28		
	30-60	>20	0.02-0.04	7.4-9.0	<2	Low	High	Low	0.10		
[1]25:											
Dix part	0-10	6.0-20	0.10-0.12	6.6-7.8	<2	Low	Moderate	Low	0.15	2	3
	10-18	>6.0	0.02-0.04	6.6-7.8	<2	Low	High	Low	0.15		
	18-60	>20	0.02-0.04	6.6-7.8	<2	Low	High	Low	0.15		
Eckley part	0-3	2.0-6.0	0.09-0.15	6.6-7.3	<2	Low	Moderate	Low	0.17	2	5
	3-20	0.6-2.0	0.13-0.18	6.6-7.3	<2	Moderate	High	Low	0.15		
	20-60	>6.0	0.03-0.06	6.6-7.8	<2	Low	High	Low	0.10		
Els:											
26	0-6	6.0-20	0.07-0.09	6.6-7.8	<2	Low	Moderate	Low	---	---	1
	6-60	6.0-20	0.06-0.08	6.6-7.8	<2	Low	High	Low	---		
Epping:											
27	0-3	0.6-2.0	0.21-0.23	7.9-8.4	<2	Low	High	Low	0.37	2	4L
	3-11	0.6-2.0	0.18-0.20	7.9-8.4	<2	Low	High	Low	0.37		
	11	---	---	---	---	---	---	---	---		
Fluvaquentic Haplaquolls:											
28	0-60	---	---	---	---	---	---	---	---	---	---
Fluvaquents:											
29	0-60	---	---	---	---	---	---	---	---	---	---

See footnotes at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Glenberg:											
30	0-13	2.0-6.0	0.09-0.13	7.4-8.4	<2	Low	Moderate	Low	0.24	5	3
	13-60	2.0-6.0	0.07-0.12	7.4-8.4	<2	Low	High	Low	0.10		
Gravel pits:											
31.											
Haverson:											
32, 33, 34, 35	0-4	0.6-2.0	0.14-0.18	6.6-8.4	<8	Low	High	Low	0.28	5	4L
	4-60	0.6-2.0	0.14-0.18	7.4-8.4	<8	Low	High	Low	0.28		
Haxtun:											
36, 37	0-8	6.0-20	0.07-0.11	6.6-7.3	<2	Low	Moderate	Low	0.10	5	2
	8-21	0.6-2.0	0.11-0.14	6.6-7.3	<2	Low	Moderate	Low	0.24		
	21-47	0.6-2.0	0.18-0.20	7.4-7.8	<2	Moderate	High	Low	0.32		
	47-60	0.6-2.0	0.10-0.18	7.4-8.4	<2	Low	High	Low	0.24		
38	0-14	2.0-6.0	0.11-0.14	6.6-7.3	<2	Low	Moderate	Low	0.15	5	3
	14-21	0.6-2.0	0.11-0.14	6.6-7.3	<2	Low	Moderate	Low	0.24		
	21-47	0.6-2.0	0.18-0.20	7.4-7.8	<2	Moderate	High	Low	0.32		
	47-60	0.6-2.0	0.10-0.18	7.4-8.4	<2	Low	High	Low	0.24		
Hayford:											
39, 40	0-7	0.06-0.2	0.16-0.21	7.9-8.4	<16	Moderate	High	Low	0.32	3	4
	7-22	0.06-0.2	0.16-0.21	7.9-8.4	<16	High	High	Low	0.32		
	22-32	0.06-0.2	0.15-0.18	7.9-9.0	<16	Moderate	High	Low	0.24		
	32-60	>6.0	0.04-0.08	7.9-9.0	<2	Low	High	Low	0.10		
Heldt:											
41, 42	0-60	0.06-0.2	0.12-0.17	7.9-9.0	<8	High	High	High	0.28	5	4
Iliff:											
43	0-8	0.6-2.0	0.17-0.21	6.6-7.3	<2	Low	Moderate	Low	0.32	2	6
	8-22	0.06-0.2	0.16-0.20	6.6-7.8	<2	High	High	Low	0.37		
	22-34	0.2-0.6	0.15-0.18	7.4-8.4	<2	Moderate	High	Low	0.32		
	34	---	---	---	---	---	---	---	---		
Julesburg:											
44, 45	0-5	6.0-20	0.08-0.12	6.6-7.8	<2	Low	Moderate	Low	0.20	5	2
	5-31	2.0-6.0	0.11-0.15	6.6-7.8	<2	Low	High	Low	0.24		
	31-60	>6.0	0.05-0.13	7.4-7.8	<2	Low	High	Low	0.20		
46, 47, 48	0-10	2.0-6.0	0.11-0.15	6.6-7.8	<2	Low	Moderate	Low	0.24	5	3
	10-31	2.0-6.0	0.11-0.15	6.6-7.8	<2	Low	High	Low	0.24		
	31-60	>6.0	0.05-0.13	7.4-7.8	<2	Low	High	Low	0.20		
[1]49:											
Julesburg part	0-10	2.0-6.0	0.11-0.15	6.6-7.8	<2	Low	Moderate	Low	0.24	5	3
	10-31	2.0-6.0	0.11-0.15	6.6-7.8	<2	Low	High	Low	0.24		
	31-60	>6.0	0.05-0.13	7.4-7.8	<2	Low	High	Low	0.20		
Eckley part	0-3	2.0-6.0	0.09-0.15	6.6-7.3	<2	Low	Moderate	Low	0.17	2	5
	3-20	0.6-2.0	0.13-0.18	6.6-7.3	<2	Moderate	High	Low	0.15		
	20-60	>6.0	0.03-0.06	6.6-7.8	<2	Low	High	Low	0.10		
Keith:											
50	0-6	0.6-2.0	0.22-0.24	6.1-6.5	<2	Low	Moderate	Low	0.32	5	6
	6-25	0.6-2.0	0.20-0.22	6.6-8.4	<2	Moderate	High	Low	0.43		
	25-60	0.6-2.0	0.19-0.21	7.4-8.4	<2	Low	High	Low	0.43		
Kim:											
51	0-4	0.6-2.0	0.16-0.18	7.9-8.4	<2	Low	Moderate	Low	0.32	5	4L
	4-60	0.6-2.0	0.15-0.17	7.9-8.4	<2	Low	High	Low	0.32		
Kuma:											
52	0-8	0.6-2.0	0.18-0.21	6.6-7.3	<2	Low	Moderate	Low	0.32	5	5
	8-32	0.6-2.0	0.18-0.21	6.6-7.8	<2	Low	High	Low	0.37		
	32-60	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	High	Low	0.32		
Kutch:											
53, 54	0-3	0.2-0.6	0.15-0.20	6.6-7.8	<2	High	High	Moderate	0.20	2	6
	3-37	0.06-0.2	0.18-0.20	7.4-8.4	<4	High	High	Moderate	0.20		
	37	---	---	---	---	---	---	---	---		

See footnotes at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Lebsack:											
55	0-6	0.06-0.2	0.19-0.21	7.4-8.4	<2	High	High	Low	0.20	5	4
	6-34	0.06-0.2	0.17-0.20	7.4-8.4	<2	High	High	Low	0.28		
	34-60	0.06-0.2	0.14-0.17	7.4-8.4	2-8	High	High	Low	0.28		
56, 57	0-9	0.06-0.2	0.19-0.21	7.4-8.4	2-8	High	High	Low	0.20	3	7
	9-34	0.06-0.2	0.19-0.21	7.9-9.0	4-16	High	High	Moderate	0.24		
	34-60	0.06-0.2	0.19-0.21	7.9-9.0	4-16	High	High	Moderate	0.24		
Loveland:											
58	0-13	0.2-0.6	0.18-0.20	6.6-7.8	2-4	Moderate	High	Low	0.32	3	6
	13-34	0.2-0.6	0.18-0.20	7.4-8.4	2-4	Moderate	High	Low	0.32		
	34-60	>6.0	0.03-0.06	7.4-8.4	<2	Low	High	Low	0.10		
Manter:											
59, 60	0-6	6.0-20	0.08-0.12	6.6-7.8	<2	Low	Moderate	Low	0.10	5	2
	6-24	2.0-6.0	0.11-0.14	6.6-7.8	<2	Low	Moderate	Low	0.15		
	24-60	6.0-20	0.08-0.14	7.9-8.4	<2	Low	High	Low	0.15		
61, 62, 63	0-10	2.0-6.0	0.12-0.16	6.6-7.8	<2	Low	Moderate	Low	0.15	5	3
	10-24	2.0-6.0	0.11-0.14	6.6-7.8	<2	Low	Moderate	Low	0.15		
	24-60	6.0-20	0.08-0.14	7.9-8.4	<2	Low	High	Low	0.15		
64, 65	0-10	2.0-6.0	0.12-0.16	6.6-7.8	<2	Low	Moderate	Low	0.15	5	3
	10-24	2.0-6.0	0.11-0.14	7.4-8.4	<8	Low	High	Low	0.15		
	24-60	6.0-20	0.08-0.14	7.9-8.4	<8	Low	High	Low	0.15		
Manzanola:											
66	0-3	0.2-2.0	0.15-0.20	7.4-8.4	<2	Moderate	High	Low	0.24	5	6
	3-11	0.06-0.6	0.15-0.18	7.4-8.4	<2	High	High	Low	0.28		
	11-60	0.2-0.6	0.16-0.20	7.4-8.4	<2	Moderate	High	Low	0.24		
Midway:											
67	0-10	0.06-0.2	0.12-0.17	7.9-9.0	2-8	High	High	Low	0.43	1	4
	10	---	---	---	---	---	---	---	---		
Mitchell:											
68	0-5	0.6-2.0	0.20-0.22	7.4-8.4	<2	Low	High	Low	0.43	5	4L
	5-60	0.6-2.0	0.17-0.22	7.4-8.4	<2	Low	High	Low	0.43		
[1]69:											
Mitchell part	0-5	0.6-2.0	0.20-0.22	7.4-8.4	<2	Low	High	Low	0.43	5	4L
	5-60	0.6-2.0	0.17-0.22	7.4-8.4	<2	Low	High	Low	0.43		
Keota part	0-4	0.6-2.0	0.16-0.18	7.4-7.8	<2	Low	High	Low	0.37	2	4L
	4-24	0.6-2.0	0.14-0.16	7.9-8.4	<2	Low	High	Low	0.43		
	24	---	---	---	---	---	---	---	---		
[1]70:											
Mitchell part	0-5	0.6-2.0	0.20-0.22	7.4-8.4	<2	Low	High	Low	0.43	5	4L
	5-60	0.6-2.0	0.17-0.22	7.4-8.4	<2	Low	High	Low	0.43		
Keota part	0-4	0.6-2.0	0.16-0.18	7.4-7.8	<2	Low	High	Low	0.37	2	4L
	4-24	0.6-2.0	0.14-0.16	7.9-8.4	<2	Low	High	Low	0.43		
	24	---	---	---	---	---	---	---	---		
[1]71:											
Mitchell part	0-5	0.6-2.0	0.20-0.22	7.4-8.4	<2	Low	High	Low	0.43	5	4L
	5-60	0.6-2.0	0.17-0.22	7.4-8.4	<2	Low	High	Low	0.43		
Norka part	0-4	0.6-2.0	0.16-0.21	7.4-7.8	<2	Low	Moderate	Low	0.32	5	5
	4-12	0.2-0.6	0.16-0.21	7.4-7.8	<2	Moderate	High	Low	0.32		
	12-60	0.6-2.0	0.16-0.21	7.9-8.4	<2	Low	High	Low	0.32		
Mosher:											
72	0-5	0.6-2.0	0.15-0.18	7.4-9.0	2-16	Low	High	Moderate	0.32	5	5
	5-17	0.06-0.2	0.12-0.14	7.4-9.0	2-16	High	High	Moderate	0.43		
	17-60	0.2-0.6	0.08-0.14	7.4-9.0	2-4	Low	High	Moderate	0.24		

See footnotes at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Mosher:											
73	0-5	0.06-0.2	0.12-0.14	7.4-9.0	2-16	High	High	Moderate	0.43	2	4
	5-17	0.06-0.2	0.12-0.14	7.4-9.0	2-16	High	High	Moderate	0.43		
	17-60	0.2-0.6	0.08-0.14	7.4-9.0	2-4	Low	High	Moderate	0.24		
Norka:											
74	0-4	0.6-2.0	0.16-0.21	7.4-7.8	<2	Low	Moderate	Low	0.32	5	5
	4-12	0.2-0.6	0.16-0.21	7.4-7.8	<2	Moderate	High	Low	0.32		
	12-60	0.6-2.0	0.16-0.21	7.9-8.4	<2	Low	High	Low	0.32		
[1]75:											
Norka part	0-4	0.6-2.0	0.16-0.21	7.4-7.8	<2	Low	Moderate	Low	0.32	5	5
	4-12	0.2-0.6	0.16-0.21	7.4-7.8	<2	Moderate	High	Low	0.32		
	12-60	0.6-2.0	0.16-0.21	7.9-8.4	<2	Low	High	Low	0.32		
Ulysses part	0-5	0.6-2.0	0.20-0.24	6.6-8.4	<2	Low	Moderate	Low	0.32	5-4	6
	5-14	0.6-2.0	0.18-0.22	7.9-8.4	<2	Moderate	High	Low	---		
	14-60	0.6-2.0	0.18-0.22	7.9-8.4	<2	Low	High	Low	---		
Nunn:											
76, 77, 78, 79, 80, 81	0-6	0.2-2.0	0.15-0.20	6.6-7.8	<2	Moderate	Moderate	Low	0.24	5	6
	6-26	0.06-0.2	0.15-0.18	7.4-8.4	<2	High	High	Low	0.28		
	26-60	0.2-0.6	0.10-0.18	7.4-8.4	<2	Moderate	High	Low	0.24		
82, 83	0-10	0.2-0.6	0.15-0.20	6.6-7.8	<2	Moderate	Moderate	Low	0.24	5	6
	10-31	0.06-0.2	0.15-0.18	7.4-8.4	<2	High	High	Low	0.28		
	31-60	0.2-0.6	0.10-0.18	7.4-8.4	<2	Moderate	High	Low	0.24		
Olney:											
84, 85	0-3	2.0-6.0	0.11-0.15	6.6-7.8	<2	Low	Moderate	Low	0.20	5	3
	3-11	0.6-2.0	0.13-0.15	6.6-7.8	<2	Moderate	High	Low	0.24		
	11-26	0.6-2.0	0.11-0.15	7.9-8.4	<2	Low	High	Low	0.24		
	26-60	2.0-6.0	0.06-0.13	7.9-8.4	<2	Low	High	Low	0.20		
Peetz:											
86	0-9	2.0-6.0	0.07-0.10	6.6-7.8	<2	Low	Moderate	Low	0.10	5	8
	9-28	6.0-20	0.06-0.09	7.4-8.4	<2	Low	High	Low	0.10		
	28-60	>6.0	0.03-0.06	7.4-8.4	<2	Low	High	Low	0.10		
Platner:											
87, 88, 89, 90	0-7	2.0-6.0	0.13-0.18	6.6-7.3	<2	Low	Moderate	Low	0.32	5	3
	7-18	0.2-0.6	0.16-0.20	7.4-7.8	<2	High	High	Low	0.20		
	18-26	0.2-0.6	0.16-0.18	7.9-8.4	<2	Moderate	High	Low	0.32		
	26-60	2.0-6.0	0.09-0.16	7.9-8.4	<2	Low	High	Low	0.28		
[1]91:											
Platner part	0-7	2.0-6.0	0.13-0.18	6.6-7.3	<2	Low	Low	Low	0.32	5	3
	7-18	0.2-0.6	0.16-0.20	7.4-7.8	<2	High	Moderate	Low	0.20		
	18-26	0.2-0.6	0.16-0.18	7.9-8.4	<2	Moderate	Moderate	Low	0.32		
	26-60	2.0-6.0	0.09-0.16	7.9-8.4	<2	Low	Moderate	Low	0.28		
Rago part	0-8	0.6-2.0	0.17-0.20	6.6-7.3	<2	Low	Low	Low	0.32	5	5
	8-26	0.06-0.2	0.18-0.21	6.6-7.8	<2	Moderate	Moderate	Low	0.28		
	26-60	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	Moderate	Low	0.37		
Dacono part	0-4	0.2-0.6	0.19-0.21	6.6-7.8	<2	Low	Moderate	Low	0.24	3	5
	4-13	0.2-0.6	0.15-0.21	7.4-8.4	<2	High	High	Low	0.24		
	13-28	0.2-0.6	0.13-0.18	7.4-8.4	<2	Moderate	High	Low	0.15		
	28-60	>20	0.03-0.05	7.4-8.4	<2	Low	High	Low	0.10		
Rago:											
92	0-8	0.6-2.0	0.17-0.20	6.6-7.3	<2	Low	Low	Low	0.32	5	5
	8-26	0.06-0.2	0.18-0.21	6.6-7.8	<2	Moderate	Moderate	Low	0.28		
	26-60	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	Moderate	Low	0.37		
93	0-8	0.2-0.6	0.18-0.20	6.6-7.3	<2	Moderate	Low	Low	0.28	5	5
	8-26	0.06-0.2	0.18-0.21	6.6-7.8	<2	Moderate	Moderate	Low	0.28		
	26-60	0.6-2.0	0.16-0.18	7.4-8.4	<2	Low	Moderate	Low	0.37		

See footnotes at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Renohill:											
194:											
Renohill part---	0-5	0.2-0.6	0.17-0.21	6.6-7.8	<2	Moderate	High-----	Low------	0.37	3	6
	5-20	0.06-0.2	0.14-0.16	6.6-8.4	<2	High------	High-----	Low------	0.32		
	22-27	0.2-0.6	0.19-0.21	7.9-9.0	<4	Moderate	High-----	Low------	0.37		
	27	---	---	---	---	----------	---------	---------	---		
Shingle part----	0-2	0.6-2.0	0.16-0.18	7.4-9.0	<2	Low-------	High-----	Low------	0.32	2	4L
	2-10	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	High-----	Low------	0.49		
	10	---	---	---	---	----------	---------	---------	---		
Rock outcrop:											
195:											
Rock outcrop part.											
Argiustolls part	0-24	---	---	---	---	----------	---------	---------	---	---	---
	24	---	---	---	---	----------	---------	---------	---		
Rosebud:											
196:											
Rosebud part----	0-5	0.6-2.0	0.22-0.24	7.4-8.4	<2	Low-------	High-----	Low------	0.28	3	5
	5-33	0.2-0.6	0.15-0.17	7.4-8.4	<2	Moderate	High-----	Low------	0.28		
	33	---	---	---	---	----------	---------	---------	---		
Escabosa part---	0-10	0.6-2.0	0.15-0.19	7.4-8.4	<2	Low-------	Moderate	Low------	0.24	2	5
	10-32	0.6-2.0	0.13-0.19	7.9-8.4	<2	Low-------	High-----	Low------	0.32		
	32	---	---	---	---	----------	---------	---------	---		
197:											
Rosebud part----	0-5	0.6-2.0	0.22-0.24	7.4-8.4	<2	Low-------	High-----	Low------	0.28	3	5
	5-33	0.2-0.6	0.15-0.17	7.4-8.4	<2	Moderate	High-----	Low------	0.28		
	33	---	---	---	---	----------	---------	---------	---		
Escabosa part---	0-10	0.6-2.0	0.15-0.19	7.4-8.4	<2	Low-------	Moderate	Low------	0.24	2	5
	10-32	0.6-2.0	0.13-0.19	7.9-8.4	<2	Low-------	High-----	Low------	0.32		
	32	---	---	---	---	----------	---------	---------	---		
198:											
Rosebud part----	0-5	0.6-2.0	0.22-0.24	7.4-8.4	<2	Low-------	High-----	Low------	0.28	3	5
	5-33	0.2-0.6	0.15-0.17	7.4-8.4	<2	Moderate	High-----	Low------	0.28		
	33	---	---	---	---	----------	---------	---------	---		
Escabosa part---	0-10	0.6-2.0	0.15-0.19	7.4-8.4	<2	Low-------	Moderate	Low------	0.24	2	5
	10-32	0.6-2.0	0.13-0.19	7.9-8.4	<2	Low-------	High-----	Low------	0.32		
	32	---	---	---	---	----------	---------	---------	---		
Iliff part------	0-8	0.6-2.0	0.17-0.21	6.6-7.3	<2	Low-------	Moderate	Low------	0.32	2	6
	8-22	0.06-0.2	0.16-0.20	6.6-7.8	<2	High------	High-----	Low------	0.37		
	22-34	0.2-0.6	0.15-0.18	7.4-8.4	<2	Moderate	High-----	Low------	0.32		
	34	---	---	---	---	----------	---------	---------	---		
Satanta:											
99, 100, 101------	0-7	0.6-2.0	0.20-0.22	6.1-7.8	<2	Low-------	Moderate	Low------	0.28	5	5
	7-20	0.6-2.0	0.15-0.19	7.4-8.4	<2	Moderate	High-----	Low------	0.28		
	20-60	0.6-2.0	0.16-0.19	7.4-8.4	<2	Low-------	High-----	Low------	0.28		
102, 103----------	0-13	0.6-2.0	0.16-0.20	6.6-7.8	2-8	Low-------	High-----	Low------	0.28	5	5
	13-23	0.6-2.0	0.16-0.20	7.4-7.8	2-8	Moderate	High-----	Low------	0.32		
	23-60	0.6-2.0	0.16-0.20	7.9-8.4	2-8	Low-------	High-----	Low------	0.32		
Shingle:											
104----------	0-2	0.6-2.0	0.16-0.18	7.4-9.0	<2	Low-------	High-----	Low------	0.32	2	4L
	2-10	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	High-----	Low------	0.49		
	10	---	---	---	---	----------	---------	---------	---		

See footnotes at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Stoneham:											
105	0-4	2.0-6.0	0.11-0.15	6.6-7.8	<2	Low	Moderate	Low	0.17	5	3
	4-13	0.6-2.0	0.14-0.18	7.4-8.4	<2	Moderate	High	Low	0.20		
	13-60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Low	High	Low	0.20		
106, 107	0-4	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low	Moderate	Low	0.20	5	5
	4-13	0.6-2.0	0.14-0.18	7.4-8.4	<2	Moderate	High	Low	0.20		
	13-60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Low	High	Low	0.20		
[1]108:											
Stoneham part	0-4	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low	Moderate	Low	0.20	5	5
	4-13	0.6-2.0	0.14-0.18	7.4-8.4	<2	Moderate	High	Low	0.20		
	13-60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Low	High	Low	0.20		
Cushman part	0-3	0.6-2.0	0.16-0.20	6.6-7.3	<2	Low	High	Low	0.32	2	5
	3-15	0.6-2.0	0.14-0.18	6.6-7.3	<2	Moderate	High	Low	0.32		
	15-22	0.6-2.0	0.14-0.18	6.6-7.3	<2	Low	High	Low	0.32		
	22	---	---	---	---	---	---	---	---		
Thedalund:											
[1]109:											
Thedalund part	0-14	0.6-2.0	0.16-0.18	7.9-8.4	<2	Low	High	Low	0.32	2	4L
	14-31	0.6-2.0	0.16-0.18	7.9-8.4	<2	Low	High	Low	0.32		
	31	---	---	---	---	---	---	---	---		
Kim part	0-4	0.6-2.0	0.16-0.18	7.9-8.4	<2	Low	Moderate	Low	0.32	5	4L
	4-60	0.6-2.0	0.15-0.17	7.9-8.4	<2	Low	High	Low	0.32		
Shingle part	0-2	0.6-2.0	0.16-0.18	7.4-9.0	<2	Low	High	Low	0.32	2	4L
	2-10	0.6-2.0	0.16-0.21	7.9-9.0	<2	Moderate	High	Low	0.49		
	10	---	---	---	---	---	---	---	---		
Ulysses:											
[1]110:											
Ulysses part	0-5	0.6-2.0	0.20-0.24	6.6-8.4	<2	Low	Moderate	Low	0.32	5-4	6
	5-14	0.6-2.0	0.18-0.22	7.9-8.4	<2	Moderate	High	Low	---		
	14-60	0.6-2.0	0.18-0.22	7.9-8.4	<2	Low	High	Low	---		
Norka part	0-4	0.6-2.0	0.16-0.21	7.4-7.8	<2	Low	Moderate	Low	0.32	5	5
	4-12	0.2-0.6	0.16-0.21	7.4-7.8	<2	Moderate	High	Low	0.32		
	12-60	0.6-2.0	0.16-0.21	7.9-8.4	<2	Low	High	Low	0.32		
[1]111:											
Ulysses part	0-5	0.6-2.0	0.20-0.24	6.6-8.4	<2	Low	Moderate	Low	0.32	5-4	6
	5-14	0.6-2.0	0.18-0.22	7.9-8.4	<2	Moderate	High	Low	---		
	14-60	0.6-2.0	0.18-0.22	7.9-8.4	<2	Low	High	Low	---		
Norka part	0-4	0.6-2.0	0.16-0.21	7.4-7.8	<2	Low	Moderate	Low	0.32	5	5
	4-12	0.2-0.6	0.16-0.21	7.4-7.8	<2	Moderate	High	Low	0.32		
	12-60	0.6-2.0	0.16-0.21	7.9-8.4	<2	Low	High	Low	0.32		
Colby part	0-4	0.6-2.0	0.20-0.24	6.6-8.4	<2	Low	Moderate	Low	0.37	5	4L
	4-60	0.6-2.0	0.17-0.22	7.4-8.4	<2	Low	High	Low	0.37		
Ustic Torriorthents:											
112	0-60	---	---	---	---	---	---	---	---	---	---
Valent:											
113, 114	0-12	6.0-20	0.05-0.10	6.6-7.3	<2	Low	Moderate	Low	0.10	5	1
	12-60	6.0-20	0.05-0.10	6.6-7.8	<2	Low	High	Low	0.10		
115	0-12	6.0-20	0.07-0.12	6.6-7.3	<2	Low	Moderate	Low	0.10	5	1
	12-60	6.0-20	0.05-0.10	6.6-7.8	<2	Low	High	Low	0.10		
Vona:											
116	0-3	6.0-20	0.09-0.11	6.6-7.3	<2	Low	Moderate	Low	0.10	5	2
	3-16	2.0-6.0	0.12-0.14	6.6-8.4	<4	Low	High	Low	0.10		
	16-60	6.0-20	0.08-0.11	7.4-8.4	<4	Low	High	Low	0.10		

See footnotes at end of table.

TABLE 14.--PHYSICAL AND CHEMICAL PROPERTIES OF SOILS--Continued

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion: Uncoated steel	Risk of corrosion: Concrete	Erosion factors: K	Erosion factors: T	Wind erodibility group
	In	In/hr	In/in	pH	Mmhos/cm						
Vona:											
117	0-3	2.0-6.0	0.11-0.13	6.6-7.3	<2	Low	Moderate	Low	0.10	5	3
	3-16	2.0-6.0	0.12-0.14	6.6-8.4	<4	Low	High	Low	0.10		
	16-60	6.0-20	0.08-0.11	7.4-8.4	<4	Low	High	Low	0.10		
Wages:											
118, 119, 120	0-4	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low	Moderate	Low	0.20	5	5
	4-14	0.6-2.0	0.14-0.21	7.4-8.4	<2	Moderate	High	Low	0.20		
	14-60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Low	High	Low	0.20		
[1]121:											
Wages part	0-4	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low	Moderate	Low	0.20	5	5
	4-14	0.6-2.0	0.14-0.21	7.4-8.4	<2	Moderate	High	Low	0.20		
	14-60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Low	High	Low	0.20		
Altvan part	0-8	0.6-2.0	0.20-0.24	6.1-7.3	<2	Low	Moderate	Low	0.28	3	5
	8-23	0.6-2.0	0.15-0.17	7.4-8.4	<2	Moderate	High	Low	0.28		
	23-30	0.6-2.0	0.17-0.19	7.4-9.0	<2	Low	High	Low	0.28		
	30-60	>20	0.02-0.04	7.4-9.0	<2	Low	High	Low	0.10		
[1]122:											
Wages part	0-4	2.0-6.0	0.11-0.15	6.6-7.8	<2	Low	Moderate	Low	0.17	5	3
	4-14	0.6-2.0	0.14-0.21	7.4-8.4	<2	Moderate	High	Low	0.20		
	14-60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Low	High	Low	0.20		
Manter part	0-10	2.0-6.0	0.12-0.16	6.6-7.8	<2	Low	Moderate	Low	0.15	5	3
	10-24	2.0-6.0	0.11-0.14	6.6-7.8	<2	Low	High	Low	0.15		
	24-60	6.0-20	0.08-0.14	7.9-8.4	<2	Low	High	Low	0.15		
[1]123:											
Wages part	0-4	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low	Moderate	Low	0.20	5	5
	4-14	0.6-2.0	0.14-0.21	7.4-8.4	<2	Moderate	High	Low	0.20		
	14-60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Low	High	Low	0.20		
Rosebud part	0-5	0.6-2.0	0.22-0.24	7.4-8.4	<2	Low	High	Low	0.28	3	5
	5-33	0.2-0.6	0.15-0.17	7.4-8.4	<2	Moderate	High	Low	0.28		
	33	---	---	---	---	---	---	---	---		
[1]124:											
Wages part	0-4	0.6-2.0	0.16-0.18	6.6-7.8	<2	Low	Moderate	Low	0.20	5	5
	4-14	0.6-2.0	0.14-0.21	7.4-8.4	<2	Moderate	High	Low	0.20		
	14-60	0.6-2.0	0.11-0.18	7.9-8.4	<2	Low	High	Low	0.20		
Rosebud part	0-5	0.6-2.0	0.22-0.24	7.4-8.4	<2	Low	High	Low	0.28	4-3	5
	5-33	0.2-0.6	0.15-0.17	7.4-8.4	<2	Moderate	High	Low	0.28		
	33	---	---	---	---	---	---	---	---		
Weld:											
125, 126	0-7	0.6-2.0	0.16-0.21	6.6-7.3	<2	Low	Moderate	Low	0.32	5	6
	7-18	0.06-0.2	0.19-0.21	6.6-7.8	<2	High	High	Low	0.28		
	18-32	0.6-2.0	0.16-0.21	7.4-8.4	<2	Low	High	Low	0.28		
	32-60	0.6-2.0	0.10-0.18	7.4-8.4	<2	Low	High	Low	0.28		
Westplain:											
127	0-17	0.06-0.2	0.17-0.20	7.4-8.4	2-8	Moderate	High	Low	0.32	2	5
	17-60	>6.0	0.05-0.08	6.6-7.8	<2	Low	High	Low	0.10		
[1]128:											
Westplain part	0-17	0.06-0.2	0.17-0.20	7.4-8.4	2-8	Moderate	High	Low	0.32	2	5
	17-60	>6.0	0.05-0.08	6.6-7.8	<2	Low	High	Low	0.10		
Alda part	0-10	0.6-2.0	0.20-0.22	6.1-7.8	<2	Low	Moderate	Low	---	---	6
	10-34	0.6-2.0	0.15-0.17	6.6-8.4	<2	Low	High	Low	---		
	34-60	>20	0.20-0.40	6.6-8.4	<2	Low	High	Low	---		

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 15.--SOIL AND WATER FEATURES

[Absence of an entry indicates the feature is not a concern. See text for descriptions of symbols. The symbol < means less than; > means greater than]

Soil name and map symbol	Hydrologic group	Flooding			High water table			Bedrock		Potential frost action
		Frequency	Duration	Months	Depth	Kind	Months	Depth	Hardness	
					Ft			In		
Albinas:										
1	B	Occasional	Very brief	Apr-Aug	>6.0	---	---	>60	---	Low.
Alda:										
2	C	None	---	---	1.5-3.5	Apparent	Nov-May	>60	---	High.
3	C	Occasional	Brief	Apr-Aug	1.5-3.5	Apparent	Nov-May	>60	---	High.
Altvan:										
[1]4:										
Altvan part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Eckley part	B	None	---	---	>6.0	---	---	>60	---	Low.
[1]5:										
Altvan part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Eckley part	B	None	---	---	>6.0	---	---	>60	---	Low.
Aquolls:										
6	B/D	Common	Brief	Apr-Aug	1.5-2.5	Apparent	Jan-Dec	>60	---	High.
Argiustolls:										
7	B/D	None	---	---	2.0-3.0	---	---	>60	---	High.
[1]8:										
Argiustolls part	B	None	---	---	>6.0	---	---	>60	---	---
Rock outcrop part.										
Arvada:										
9	D	None	---	---	>6.0	---	---	>60	---	Low.
Ascalon:										
10, 11, 12	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Badland:										
13.										
Bankard:										
14	A	Frequent	Brief	Apr-Aug	>6.0	---	---	>60	---	Low.
Bayard:										
[1]15:										
Bayard part	A	None	---	---	>6.0	---	---	>60	---	Moderate.
Canyon part	D	None	---	---	>6.0	---	---	6-20	Rippable	Low.
Bridgeport:										
16	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Canyon:										
17	D	None	---	---	>6.0	---	---	6-20	Rippable	Low.
Chappell:										
18	B	Occasional	Very brief	Apr-Aug	>6.0	---	---	>60	---	Low.
Colby:										
19	B	None	---	---	>6.0	---	---	>60	---	Low.
Dacono:										
20	C	None	---	---	>6.0	---	---	>60	---	Low.

See footnotes at end of table.

TABLE 15.--SOIL AND WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table			Bedrock		Potential frost action
		Frequency	Duration	Months	Depth	Kind	Months	Depth	Hardness	
					Ft			In		
Dailey:										
21, 22, 23	A	None	---	---	>6.0	---	---	>60	---	Low.
Dix:										
[1]24:										
Dix part	A	None	---	---	>6.0	---	---	>60	---	Low.
Altvan part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
[1]25:										
Dix part	A	None	---	---	>6.0	---	---	>60	---	Low.
Eckley part	B	None	---	---	>6.0	---	---	>60	---	Low.
Els:										
26	A	Occasional	Brief	Apr-Aug	1.5-3.5	Apparent	Nov-May	>60	---	High.
Epping:										
27	D	None	---	---	>6.0	---	---	10-20	Rippable	Low.
Fluvaquentic Haplaquolls:										
28	B/D	Frequent	Brief	Apr-Aug	1.5-3.0	Apparent	Nov-Jul	>60	---	High.
Fluvaquents:										
29	A/D	Frequent	Brief	Apr-Aug	1.5-3.0	Apparent	Nov-Jul	>60	---	High.
Glenberg:										
30	B	Occasional	Very brief	Apr-Aug	>6.0	---	---	>60	---	Low.
Gravel pits:										
31.										
Haverson:										
32, 33	B	Rare	Brief	Apr-Aug	>6.0	---	---	>60	---	Low.
34	B	Frequent	Brief	Apr-Aug	>6.0	---	---	>60	---	Low.
35	B	Occasional	Brief	Apr-Aug	>6.0	---	---	>60	---	Low.
Haxtun:										
36, 37, 38	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Hayford:										
39, 40	C	Rare	---	---	1.5-3.5	Apparent	Nov-Jul	>60	---	Moderate.
Heldt:										
41, 42	C	None	---	---	>6.0	---	---	>60	---	Low.
Iliff:										
43	C	None	---	---	>6.0	---	---	20-40	Hard	Moderate.
Julesburg:										
44, 45, 46, 47, 48	A	None	---	---	>6.0	---	---	>60	---	Moderate.
[1]49:										
Julesburg part	A	None	---	---	>6.0	---	---	>60	---	Moderate.
Eckley part	B	None	---	---	>6.0	---	---	>60	---	Low.
Keith:										
50	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Kim:										
51	B	None	---	---	>6.0	---	---	>60	---	Low.
Kuma:										
52	B	None	---	---	>6.0	---	---	>60	---	Moderate.

See footnotes at end of table.

TABLE 15.--SOIL AND WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table			Bedrock		Potential frost action
		Frequency	Duration	Months	Depth	Kind	Months	Depth	Hardness	
					Ft			In		
Kutch:										
53, 54	C	None	---	---	>6.0	---	---	20-40	Rippable	Moderate.
Lebsack:										
55	C	None	---	---	>6.0	---	---	>60	---	Low.
56, 57	C	None	---	---	5.0-6.0	Apparent	Mar-Oct	>60	---	Moderate.
Loveland:										
58	C	Occasional	Very brief	Mar-Jul	1.5-2.5	Apparent	Nov-May	>60	---	High.
Manter:										
59, 60, 61, 62, 63	B	None	---	---	>6.0	---	---	>60	---	Moderate.
64	B	None	---	---	4.0-6.0	Apparent	Nov-May	>60	---	Moderate.
65	B	None	---	---	2.0-4.0	Apparent	Apr-Oct	>60	---	Moderate.
Manzanola:										
66	C	None	---	---	>6.0	---	---	>60	---	Moderate.
Midway:										
67	D	None	---	---	>6.0	---	---	10-20	Rippable	Low.
Mitchell:										
68	B	None	---	---	>6.0	---	---	>60	---	Low.
[1]69:										
Mitchell part	B	None	---	---	>6.0	---	---	>60	---	Low.
Keota part	C	None	---	---	>6.0	---	---	20-40	Rippable	Low.
[1]70:										
Mitchell part	B	None	---	---	>6.0	---	---	>60	---	Low.
Keota part	C	None	---	---	>6.0	---	---	20-40	Rippable	Low.
[1]71:										
Mitchell part	B	None	---	---	>6.0	---	---	>60	---	Low.
Norka part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Mosher:										
72, 73	D	Rare	---	---	3.0-6.0	Apparent	Jan-Dec	>60	---	Moderate.
Norka:										
74	B	None	---	---	>6.0	---	---	>60	---	Moderate.
[1]75:										
Norka part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Ulysses part	B	None	---	---	>6.0	---	---	>60	---	Low.
Nunn:										
76, 77, 78, 79, 80, 81	C	None	---	---	>6.0	---	---	>60	---	Moderate.
82	C	None	---	---	4.0-6.0	Apparent	May-Nov	>60	---	Moderate.
83	C	None	---	---	2.0-4.0	Apparent	Apr-Oct	>60	---	Moderate.
Olney:										
84, 85	B	None	---	---	>6.0	---	---	>60	---	Low.
Peetz:										
86	A	None	---	---	>6.0	---	---	>60	---	Low.

See footnotes at end of table.

TABLE 15.--SOIL AND WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table			Bedrock		Potential frost action
		Frequency	Duration	Months	Depth	Kind	Months	Depth	Hardness	
					Ft			In		
Platner:										
87, 88, 89, 90---	C	None--------	---	---	>6.0	---	---	>60	---	Low.
[1]91:										
Platner part---	C	None--------	---	---	>6.0	---	---	>60	---	Low.
Rago part------	C	None--------	---	---	>6.0	---	---	>60	---	Moderate.
Dacono part----	C	None--------	---	---	>6.0	---	---	>60	---	Low.
Rago:										
92, 93----------	C	None--------	---	---	>6.0	---	---	>60	---	Moderate.
Renohill:										
[1]94:										
Renohill part--	C	None--------	---	---	>6.0	---	---	20-40	Rippable	Low.
Shingle part---	D	None--------	---	---	>6.0	---	---	10-20	Rippable	Low.
Rock outcrop:										
[1]95:										
Rock outcrop part.										
Argiustolls part----------	C	None--------	---	---	>6.0	---	---	20-40	Rippable	---
Rosebud:										
[1]96:										
Rosebud part---	B	None--------	---	---	>6.0	---	---	20-40	Rippable	Moderate.
Escabosa part--	C	None--------	---	---	>6.0	---	---	20-40	Hard	Moderate.
[1]97:										
Rosebud part---	B	None--------	---	---	>6.0	---	---	20-40	Rippable	Moderate.
Escabosa part--	C	None--------	---	---	>6.0	---	---	20-40	Hard	Moderate.
[1]98:										
Rosebud part---	B	None--------	---	---	>6.0	---	---	20-40	Rippable	Moderate.
Escabosa part--	C	None--------	---	---	>6.0	---	---	20-40	Hard	Moderate.
Iliff part-----	C	None--------	---	---	>6.0	---	---	20-40	Hard	Moderate.
Satanta:										
99, 100, 101-----	B	None--------	---	---	>6.0	---	---	>60	---	Low.
102----------	B	None--------	---	---	4.0-6.0	Apparent	Nov-May	>60	---	Moderate.
103----------	B	None--------	---	---	2.0-4.0	Apparent	Apr-Oct	>60	---	Moderate.
Shingle:										
104----------	D	None--------	---	---	>6.0	---	---	10-20	Rippable	Low.
Stoneham:										
105, 106, 107----	B	None--------	---	---	>6.0	---	---	>60	---	Low.
[1]108:										
Stoneham part--	B	None--------	---	---	>6.0	---	---	>60	---	Low.
Cushman part---	C	None--------	---	---	>6.0	---	---	20-40	Rippable	Low.

See footnotes at end of table.

TABLE 15.--SOIL AND WATER FEATURES--Continued

Soil name and map symbol	Hydrologic group	Flooding			High water table			Bedrock		Potential frost action
		Frequency	Duration	Months	Depth	Kind	Months	Depth	Hardness	
					Ft			In		
Thedalund:										
[1]109:										
Thedalund part	C	None	---	---	>6.0	---	---	20-40	Rippable	Low.
Kim part	B	None	---	---	>6.0	---	---	>60	---	Low.
Shingle part	D	None	---	---	>6.0	---	---	10-20	Rippable	Low.
Ulysses:										
[1]110:										
Ulysses part	B	None	---	---	>6.0	---	---	>60	---	Low.
Norka part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
[1]111:										
Ulysses part	B	None	---	---	>6.0	---	---	>60	---	Low.
Norka part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Colby part	B	None	---	---	>6.0	---	---	>60	---	Low.
Ustic Torriorthents:										
112	D	None	---	---	>6.0	---	---	>60	---	Moderate.
Valent:										
113, 114, 115	A	None	---	---	>6.0	---	---	>60	---	Low.
Vona:										
116, 117	B	None	---	---	>6.0	---	---	>60	---	Low.
Wages:										
118, 119, 120	B	None	---	---	>6.0	---	---	>60	---	Moderate.
[1]121:										
Wages part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Altvan part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
[1]122:										
Wages part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Manter part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
[1]123:										
Wages part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Rosebud part	B	None	---	---	>6.0	---	---	20-40	Rippable	Moderate.
[1]124:										
Wages part	B	None	---	---	>6.0	---	---	>60	---	Moderate.
Rosebud part	B	None	---	---	>6.0	---	---	20-40	Rippable	Moderate.
Weld:										
125, 126	C	None	---	---	>6.0	---	---	>60	---	Moderate.
Westplain:										
127	C	Frequent	Very brief	Apr-Jun	1.0-2.0	Apparent	Nov-Jul	>60	---	High.
[1]128:										
Westplain part	C	Frequent	Very brief	Apr-Jun	1.0-2.0	Apparent	Nov-Jul	>60	---	High.
Alda part	C	Occasional	Very brief	Apr-Jul	2.0-6.0	Apparent	Nov-May	>60	---	High.

[1]This mapping unit is made up of two or more dominant kinds of soil. See mapping unit description for the composition and behavior of the whole mapping unit.

TABLE 16.--CLASSIFICATION OF THE SOILS

Soil name	Family or higher taxonomic class
Albinas	Fine-loamy, mixed, mesic Pachic Argiustolls
Alda	Coarse-loamy, mixed, mesic Fluvaquentic Haplustolls
Altvan	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Aridic Argiustolls
Aquolls	Aquolls
Argiustolls	Argiustolls
Arvada	Fine, montmorillonitic, mesic Ustollic Natrargids
Ascalon	Fine-loamy, mixed, mesic Aridic Argiustolls
Bankard	Sandy, mixed, mesic Ustic Torrifluvents
Bayard	Coarse-loamy, mixed, mesic Torriorthentic Haplustolls
Bridgeport	Fine-silty, mixed, mesic Fluventic Haplustolls
Canyon	Loamy, mixed (calcareous), mesic, shallow Ustic Torriorthents
Chappell	Coarse-loamy, mixed, mesic Aridic Haplustolls
Colby	Fine-silty, mixed (calcareous), mesic Ustic Torriorthents
Cushman	Fine-loamy, mixed, mesic Ustollic Haplargids
Dacono	Clayey over sandy or sandy-skeletal, montmorillonitic, mesic Aridic Argiustolls
Dailey	Sandy, mixed, mesic Torriorthentic Haplustolls
Dix	Sandy-skeletal, mixed, mesic Torriorthentic Haplustolls
Eckley	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Aridic Argiustolls
Els	Mixed, mesic Aquic Ustipsamments
Epping	Loamy, mixed (calcareous), mesic, shallow Ustic Torriorthents
Escabosa	Fine-loamy, mixed, mesic Aridic Calciustolls
Fluvaquentic Haplaquolls	Fluvaquentic Haplaquolls
Fluvaquents	Fluvaquents
Glenberg	Coarse-loamy, mixed (calcareous), mesic Ustic Torrifluvents
Haverson	Fine-loamy, mixed (calcareous), mesic Ustic Torrifluvents
Haxtun	Fine-loamy, mixed, mesic Pachic Argiustolls
Hayford	Clayey over sandy or sandy-skeletal, montmorillonitic, mesic Aquic Argiustolls
Heldt	Fine, montmorillonitic, mesic Ustertic Camborthids
Iliff	Fine, montmorillonitic, mesic Aridic Paleustolls
Julesburg	Coarse-loamy, mixed, mesic Aridic Argiustolls
Keith	Fine-silty, mixed, mesic Aridic Argiustolls
Keota	Coarse-silty, mixed (calcareous), mesic Ustic Torriorthents
Kim	Fine-loamy, mixed (calcareous), mesic Ustic Torriorthents
Kuma	Fine-silty, mixed, mesic Pachic Argiustolls
Kutch	Fine, montmorillonitic, mesic Torrertic Argiustolls
Lebsack	Fine, montmorillonitic, mesic Pachic Haplustolls
Loveland	Fine-loamy over sandy or sandy-skeletal, mixed (calcareous), mesic Typic Haplaquolls
Manter	Coarse-loamy, mixed, mesic Aridic Argiustolls
Manzanola	Fine, montmorillonitic, mesic Ustollic Haplargids
Midway	Clayey, montmorillonitic (calcareous), mesic, shallow Ustic Torriorthents
Mitchell	Coarse-silty, mixed (calcareous), mesic Ustic Torriorthents
Mosher	Fine, montmorillonitic, mesic Typic Natrustolls
Norka	Fine-silty, mixed, mesic Aridic Argiustolls
Nunn	Fine, montmorillonitic, mesic Aridic Argiustolls
Olney	Fine-loamy, mixed, mesic Ustollic Haplargids
Peetz	Sandy-skeletal, mixed, mesic Aridic Calciustolls
Platner	Fine, montmorillonitic, mesic Aridic Paleustolls
Rago	Fine, montmorillonitic, mesic Pachic Argiustolls
Renohill	Fine, montmorillonitic, mesic Ustollic Haplargids
Rosebud	Fine-loamy, mixed, mesic Aridic Argiustolls
Satanta	Fine-loamy, mixed, mesic Aridic Argiustolls
Shingle	Loamy, mixed (calcareous), mesic, shallow Ustic Torriorthents
Stoneham	Fine-loamy, mixed, mesic Ustollic Haplargids
Thedalund	Fine-loamy, mixed (calcareous), mesic Ustic Torriorthents
Ulysses	Fine-silty, mixed, mesic Aridic Haplustolls
Ustic Torriorthents	Ustic Torriorthents
Valent	Mixed, mesic Ustic Torripsamments
Vona	Coarse-loamy, mixed, mesic Ustollic Haplargids
Wages	Fine-loamy, mixed, mesic Aridic Argiustolls
Weld	Fine, montmorillonitic, mesic Aridic Paleustolls
Westplain	Clayey over sandy or sandy-skeletal, montmorillonitic (calcareous), mesic Typic Haplaquolls

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