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How To Use This Soil Survey

This publication consists of a manuscript and a set of soil maps. The information provided can be useful in planning the use and management of small areas.

To find information about your area of interest, locate that area on the Index to Map Sheets. Note the number of the map sheet, and turn to that sheet.

Locate your area of interest on the map sheet. Note the map unit symbols that are in that area. Turn to the Contents, which lists the map units by symbol and name and shows the page where each map unit is described. The map unit symbols and names also appear as bookmarks, which link directly to the appropriate page in the publication.

The Contents shows which table has data on a specific land use for each soil map unit. Also see the Contents for other sections of this publication that may address your specific needs.

NOTE: Map unit symbols in a soil survey may consist only of numbers or letters, or they may be a combination of numbers and letters.
This soil survey is a publication of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (formerly the Soil Conservation Service) has leadership for the Federal part of the National Cooperative Soil Survey.

Major fieldwork for this soil survey was completed in 2000. Soil names and descriptions were approved in 2001. Unless otherwise indicated, statements in this publication refer to conditions in the survey area in 2001. This survey was made cooperatively by the Natural Resources Conservation Service, the Minnesota Agricultural Experiment Station, and the Board of Water and Soil Resources. It is part of the technical assistance furnished to the Hennepin Conservation District, which also provided funding for part of the survey.

Soil maps in this survey may be copied without permission. Enlargement of these maps, however, could cause misunderstanding of the detail of mapping. If enlarged, maps do not show the small areas of contrasting soils that could have been shown at a larger scale.

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Cover: A wetland and prairie restoration project in Hennepin County.
Contents

How To Use This Soil Survey ......................... 3
Foreword .................................................. 11
How This Survey Was Made .......................... 13
Formation and Classification of the Soils ........... 15
  Formation of the Soils ............................. 15
  Climate ................................................. 15
  Living Organisms ................................... 15
  Topography ......................................... 16
  Parent Material ..................................... 16
  Time .................................................. 18
Classification of the Soils .......................... 18
Table 1.—Classification of the Soils ............... 19
Soil Map Unit Descriptions .......................... 21
  D1B—Anoka and Zimmerman soils, terrace, 2 to 6 percent slopes ............... 22
  D1C—Anoka and Zimmerman soils, terrace, 6 to 12 percent slopes .......... 23
  D2A—Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded ...... 23
  D3A—Elkriver fine sandy loam, 0 to 2 percent slopes, eroded ............. 24
  D4A—Dorset sandy loam, 0 to 2 percent slopes .............................. 25
  D4B—Dorset sandy loam, 2 to 6 percent slopes ................................ 26
  D4C—Dorset sandy loam, 6 to 12 percent slopes ............................. 27
  D5B—Dorset-Two Inlets complex, 2 to 6 percent slopes ....................... 27
  D5C—Dorset-Two Inlets complex, 6 to 12 percent slopes .................... 28
  D5D—Dorset-Two Inlets complex, 12 to 18 percent slopes ................... 29
  D6A—Verndale sandy loam, acid substratum, 0 to 2 percent slopes ....... 30
  D6B—Verndale sandy loam, acid substratum, 2 to 6 percent slopes ....... 31
  D6C—Verndale sandy loam, acid substratum, 6 to 12 percent slopes ...... 32
  D7A—Hubbard loamy sand, 0 to 2 percent slopes .......................... 33
  D7B—Hubbard loamy sand, 2 to 6 percent slopes .......................... 33
  D7C—Hubbard loamy sand, 6 to 12 percent slopes .......................... 34
  D8B—Sandberg loamy coarse sand, 2 to 6 percent slopes .................... 34
  D8C—Sandberg loamy coarse sand, 6 to 12 percent slopes .................. 35
  D8D—Sandberg loamy coarse sand, 12 to 18 percent slopes ............... 36
  D8E—Sandberg loamy coarse sand, 18 to 35 percent slopes ............... 36
  D10A—Forada sandy loam, 0 to 2 percent slopes ........................... 37
  D11A—Lindaas silt loam, 0 to 2 percent slopes ............................ 38
  D12B—Bygland silt loam, MAP >25, 2 to 6 percent slopes ................ 38
  D12C2—Bygland silt loam, MAP >25, 6 to 12 percent slopes, eroded .... 39
  D13A—Langola loamy fine sand, terrace, 0 to 2 percent slopes .......... 41
  D13B—Langola loamy fine sand, terrace, 2 to 6 percent slopes .......... 41
  D15A—Seelyeville-Markey complex, depressional, 0 to 1 percent slopes . 42
  D16A—Seelyeville and Markay soils, ponded, 0 to 1 percent slopes ..... 43
  D17A—Duelm loamy sand, 0 to 2 percent slopes ........................... 44
  D18B—Braham loamy fine sand, terrace, 2 to 5 percent slopes .......... 44
  D19A—Fordum-Winterfield complex, 0 to 2 percent slopes, frequently flooded .... 45
  D20A—Isan sandy loam, 0 to 2 percent slopes ............................. 46
  D21A—Isan sandy loam, depressional, 0 to 1 percent slopes ............... 47
  D23A—Southhaven loam, 0 to 2 percent slopes ............................ 47
  D24A—Sedgeville loam, 0 to 2 percent slopes, occasionally flooded ...... 48
  D25A—Soderville loamy fine sand, terrace, 0 to 3 percent slopes ....... 48
  D26A—Foldahl loamy sand, MAP >25, 0 to 3 percent slopes ............... 49
  D27A—Dorset sandy loam, loamy substratum, 0 to 2 percent slopes ....... 50
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>D28B</td>
<td>Urban land-Bygland, MAP &gt;25, complex, 1 to 6 percent slopes</td>
<td>51</td>
</tr>
<tr>
<td>D29B</td>
<td>Urban land-Hubbard, bedrock substratum, complex, 0 to 8 percent slopes</td>
<td>51</td>
</tr>
<tr>
<td>D30A</td>
<td>Seelyeville and Markey soils, depressional, 0 to 1 percent slopes</td>
<td>52</td>
</tr>
<tr>
<td>D31A</td>
<td>Urban land-Duelm complex, 0 to 2 percent slopes</td>
<td>53</td>
</tr>
<tr>
<td>D33B</td>
<td>Urban land-Dorset complex, 0 to 8 percent slopes</td>
<td>54</td>
</tr>
<tr>
<td>D33C</td>
<td>Urban land-Dorset complex, 8 to 18 percent slopes</td>
<td>55</td>
</tr>
<tr>
<td>D34B</td>
<td>Urban land-Hubbard complex, 0 to 8 percent slopes</td>
<td>56</td>
</tr>
<tr>
<td>D35A</td>
<td>Elkriver-Fordum complex, 0 to 2 percent slopes, occasionally flooded</td>
<td>56</td>
</tr>
<tr>
<td>D37F</td>
<td>Dorset, bedrock substratum-Rock outcrop complex, 25 to 65 percent slopes</td>
<td>57</td>
</tr>
<tr>
<td>D40A</td>
<td>Kratka loamy fine sand, thick solum, 0 to 2 percent slopes</td>
<td>58</td>
</tr>
<tr>
<td>D41C</td>
<td>Urban land-Waukon complex, 6 to 18 percent slopes</td>
<td>59</td>
</tr>
<tr>
<td>D43A</td>
<td>Gonvick loam, terrace, 1 to 3 percent slopes</td>
<td>59</td>
</tr>
<tr>
<td>GP</td>
<td>Pits, gravel-Udipsamments complex</td>
<td>60</td>
</tr>
<tr>
<td>L2B</td>
<td>Malardi-Hawick complex, 1 to 6 percent slopes</td>
<td>60</td>
</tr>
<tr>
<td>L2C</td>
<td>Malardi-Hawick complex, 6 to 12 percent slopes</td>
<td>61</td>
</tr>
<tr>
<td>L2D</td>
<td>Malardi-Hawick complex, 12 to 18 percent slopes</td>
<td>62</td>
</tr>
<tr>
<td>L2E</td>
<td>Malardi-Hawick complex, 18 to 35 percent slopes</td>
<td>63</td>
</tr>
<tr>
<td>L3A</td>
<td>Rasset sandy loam, 0 to 2 percent slopes</td>
<td>64</td>
</tr>
<tr>
<td>L3B</td>
<td>Rasset sandy loam, 2 to 6 percent slopes</td>
<td>65</td>
</tr>
<tr>
<td>L3C</td>
<td>Rasset sandy loam, 6 to 12 percent slopes</td>
<td>65</td>
</tr>
<tr>
<td>L4B</td>
<td>Crowfork loamy sand, 1 to 6 percent slopes</td>
<td>65</td>
</tr>
<tr>
<td>L4C</td>
<td>Crowfork loamy sand, 6 to 12 percent slopes</td>
<td>66</td>
</tr>
<tr>
<td>L4D</td>
<td>Crowfork loamy sand, 12 to 18 percent slopes</td>
<td>67</td>
</tr>
<tr>
<td>L6A</td>
<td>Biscay loam, 0 to 2 percent slopes</td>
<td>68</td>
</tr>
<tr>
<td>L7A</td>
<td>Biscay loam, depressional, 0 to 1 percent slopes</td>
<td>69</td>
</tr>
<tr>
<td>L8A</td>
<td>Darfur sandy loam, 0 to 2 percent slopes</td>
<td>70</td>
</tr>
<tr>
<td>L9A</td>
<td>Minnetonka silty clay loam, 0 to 2 percent slopes</td>
<td>70</td>
</tr>
<tr>
<td>L10B</td>
<td>Kasota silty clay loam, 1 to 6 percent slopes</td>
<td>71</td>
</tr>
<tr>
<td>L11B</td>
<td>Grays very fine sandy loam, 2 to 8 percent slopes</td>
<td>72</td>
</tr>
<tr>
<td>L12A</td>
<td>Muskego, Blue Earth, and Houghton soils, ponded, 0 to 1 percent slopes,</td>
<td>73</td>
</tr>
<tr>
<td></td>
<td>frequently flooded</td>
<td></td>
</tr>
<tr>
<td>L13A</td>
<td>Klossner muck, depressional, 0 to 1 percent slopes</td>
<td>74</td>
</tr>
<tr>
<td>L14A</td>
<td>Houghton muck, depressional, 0 to 1 percent slopes</td>
<td>75</td>
</tr>
<tr>
<td>L15A</td>
<td>Klossner, Okoboji, and Glencoe soils, ponded, 0 to 1 percent slopes</td>
<td></td>
</tr>
<tr>
<td>L16A</td>
<td>Muskego, Blue Earth, and Houghton soils, ponded, 0 to 1 percent slopes</td>
<td>76</td>
</tr>
<tr>
<td>L17B</td>
<td>Angus-Malardi complex, 2 to 6 percent slopes</td>
<td>77</td>
</tr>
<tr>
<td>L18A</td>
<td>Shields silty clay loam, 0 to 3 percent slopes</td>
<td>78</td>
</tr>
<tr>
<td>L19B</td>
<td>Moon loamy fine sand, 2 to 5 percent slopes</td>
<td>79</td>
</tr>
<tr>
<td>L20B</td>
<td>Fedji loamy fine sand, silty substratum, 2 to 8 percent slopes</td>
<td>79</td>
</tr>
<tr>
<td>L21A</td>
<td>Canisteo loam, 0 to 2 percent slopes</td>
<td>80</td>
</tr>
<tr>
<td>L22C2</td>
<td>Lester loam, morainic, 6 to 12 percent slopes, eroded</td>
<td>81</td>
</tr>
<tr>
<td>L22D2</td>
<td>Lester loam, morainic, 12 to 18 percent slopes, eroded</td>
<td>82</td>
</tr>
<tr>
<td>L22E</td>
<td>Lester loam, morainic, 18 to 25 percent slopes, eroded</td>
<td>83</td>
</tr>
<tr>
<td>L22F</td>
<td>Lester loam, morainic, 25 to 35 percent slopes</td>
<td>84</td>
</tr>
<tr>
<td>L23A</td>
<td>Cordova loam, 0 to 2 percent slopes</td>
<td>85</td>
</tr>
<tr>
<td>L24A</td>
<td>Glencoe loam, depressional, 0 to 1 percent slopes</td>
<td>85</td>
</tr>
<tr>
<td>L25A</td>
<td>Le Sueur loam, 1 to 3 percent slopes</td>
<td>86</td>
</tr>
</tbody>
</table>
L26A—Shorewood silty clay loam, 0 to 3 percent slopes ............................................. 87
L26B—Shorewood silty clay loam, 3 to 6 percent slopes ............................................. 88
L26C2—Shorewood silty clay loam, 6 to 12 percent slopes, eroded .............................. 88
L27A—Suckercreek loam, 0 to 2 percent slopes, frequently flooded ............................ 89
L28A—Suckercreek fine sandy loam, 0 to 2 percent slopes, occasionally flooded ............. 90
L29A—Hanlon fine sandy loam, 0 to 2 percent slopes, occasionally flooded ............. 91
L30A—Medo soils, depressional, 0 to 1 percent slopes ............................................. 91
L31A—Medo, Dassel, and Biscay soils, ponded, 0 to 1 percent slopes ......................... 92
L32D—Hawick loamy sand, 12 to 18 percent slopes ......................................................... 94
L32F—Hawick loamy sand, 18 to 40 percent slopes ......................................................... 94
L35A—Lerdal loam, 1 to 3 percent slopes ........................................................................ 95
L36A—Hamel, overwash-Hamel complex, 1 to 4 percent slopes ..................................... 96
L37B—Angus loam, morainic, 2 to 5 percent slopes ......................................................... 97
L38A—Rushriver very fine sandy loam, 0 to 2 percent slopes, occasionally flooded ........ 98
L39A—Minneiska fine sandy loam, 0 to 2 percent slopes, occasionally flooded .......... 99
L40B—Angus-Kilkenny complex, 2 to 6 percent slopes ................................................. 100
L41C2—Lester-Kilkenny complex, 6 to 12 percent slopes, eroded .............................. 101
L41D2—Lester-Kilkenny complex, 12 to 18 percent slopes, eroded .............................. 102
L41E—Lester-Kilkenny complex, 18 to 25 percent slopes ............................................. 104
L41F—Lester-Kilkenny complex, 25 to 35 percent slopes ............................................. 105
L42B—Kingsley-Gotham complex, 2 to 6 percent slopes ............................................. 106
L42C—Kingsley-Gotham complex, 6 to 12 percent slopes ............................................. 107
L42D—Kingsley-Gotham complex, 12 to 18 percent slopes ............................................. 108
L42E—Kingsley-Gotham complex, 18 to 25 percent slopes ............................................. 109
L42F—Kingsley-Gotham complex, 25 to 35 percent slopes ............................................. 109
L43A—Brouillet loam, 0 to 2 percent slopes, occasionally flooded .............................. 110
L44A—Nessie loam, 1 to 3 percent slopes ........................................................................ 111
L45A—Dundas-Cordova complex, 0 to 3 percent slopes ............................................. 112
L46A—Tomall loam, 0 to 2 percent slopes ........................................................................ 113
L47A—Eden Prairie sandy loam, 0 to 2 percent slopes ............................................. 113
L47B—Eden Prairie sandy loam, 2 to 6 percent slopes ............................................. 114
L47C—Eden Prairie sandy loam, 6 to 12 percent slopes ............................................. 115
L49A—Klossner soils, depressional, 0 to 1 percent slopes ............................................. 116
L50A—Houghton and Muskego soils, depressional, 0 to 1 percent slopes .................. 117
L52C—Urban land-Lester complex, 2 to 18 percent slopes ............................................. 118
L52E—Urban land-Lester complex, 18 to 35 percent slopes ............................................. 119
L53B—Urban land-Moon complex, 2 to 8 percent slopes ............................................. 119
L54A—Urban land-Dundas complex, 0 to 3 percent slopes ............................................. 120
L55B—Urban land-Malardi complex, 0 to 8 percent slopes ............................................. 121
L55C—Urban land-Malardi complex, 8 to 18 percent slopes ............................................. 121
L56A—Muskego and Klossner soils, 0 to 1 percent slopes, frequently flooded .......... 122
L58B—Koronis-Kingsley complex, 2 to 6 percent slopes ............................................. 123
L58C2—Koronis-Kingsley complex, 6 to 12 percent slopes, eroded .............................. 124
L58D2—Koronis-Kingsley complex, 12 to 18 percent slopes, eroded .............................. 125
L58E—Koronis-Kingsley complex, 18 to 25 percent slopes ............................................. 126
L59A—Forestcity-Lundlake, depressional, complex, 0 to 3 percent slopes ............ 127
Table 12b.—Recreational Development .......... 421
Table 13.—Wildlife Habitat .......................... 454
Table 14a.—Building Site Development ............ 479
Table 14b.—Building Site Development ............ 518
Table 15a.—Construction Materials ............... 564
Table 15b.—Construction Materials ............... 601
Table 16.—Water Management ....................... 652

Soil Properties........................................... 693
Engineering Index Properties ....................... 693
Physical and Chemical Properties ................... 694
Water Features........................................... 695
Soil Features............................................. 697

Table 17.—Engineering Index Properties .......... 698
Table 18.—Physical Properties of the Soils ....... 807
Table 19.—Chemical Properties of the Soils ....... 863
Table 20.—Soil Moisture Status by Depth ......... 903
Table 21.—Flooding Frequency and Duration .......... 958
Table 22.—Ponding Frequency, Duration, and Depth ........................................... 990
Table 23.—Soil Features ................................ 1024

References.............................................. 1045
Glossary............................................... 1047

Issued 2004
Where To Get Updated Information

The soil properties and interpretations included in this survey were current as of August 2003. The most current information is available through the NRCS Soil Data Mart Website at [http://soildatamart.nrcs.usda.gov](http://soildatamart.nrcs.usda.gov). Additional information is available from the Natural Resources Conservation Service (NRCS) Field Office Technical Guide at Brooklyn Center, Minnesota, or online at [www.nrcs.usda.gov/technical/efotg/](http://www.nrcs.usda.gov/technical/efotg/). The data in the Field Office Technical Guide are updated periodically.

Additional information about soils and about NRCS is available through the Minnesota NRCS Web page at [www.mn.nrcs.usda.gov](http://www.mn.nrcs.usda.gov).

For further information, please contact:

USDA, Natural Resources Conservation Service  
MLRA Soil Survey Office  
Room 650, Earle Brown Tower  
6120 Earle Brown Drive  
Brooklyn Center, MN 55430-2195  
Phone: 763-566-2941
This soil survey contains information that affects land use planning in this survey area. It contains predictions of soil behavior for selected land uses. The survey also highlights soil limitations, improvements needed to overcome the limitations, and the impact of selected land uses on the environment.

This soil survey is designed for many different users. Farmers, foresters, and agronomists can use it to evaluate the potential of the soil and the management needed for maximum food and fiber production. Planners, community officials, engineers, developers, builders, and home buyers can use the survey to plan land use, select sites for construction, and identify special practices needed to ensure proper performance. Conservationists, teachers, students, and specialists in recreation, wildlife management, waste disposal, and pollution control can use the survey to help them understand, protect, and enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. The information in this report is intended to identify soil properties that are used in making various land use or land treatment decisions. Statements made in this report are intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are shallow to bedrock. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

These and many other soil properties that affect land use are described in this soil survey. The location of each soil is shown on the soil maps. Each soil in the survey area is described, and information on specific uses is given. Help in using this publication and additional information are available at the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

William Hunt
State Conservationist
Natural Resources Conservation Service
Location of Hennepin County and MLRAs 91 and 103 in Region 10.
How This Survey Was Made

This survey was made to provide updated information about the soils and miscellaneous areas in the survey area, which is in Region 10 and in Major Land Resource Areas 91 and 103. Region 10 is an administrative division of the Natural Resources Conservation Service. Major land resource areas (MLRAs) are geographically associated land resource units that share a common land use, elevation and topography, climate, water, soils, and vegetation (USDA, 1981). Hennepin County is a subset of MLRAs 91 and 103. Map unit design and the detailed soil descriptions are based on the occurrence of each soil throughout the MLRA. In some places in this publication, a soil may be referred to that was not mapped in the Hennepin County subset but that is representative of the MLRA.

The information includes a description of the soils and miscellaneous areas and their location and a discussion of their properties and the subsequent effects on suitability, limitations, and management for specified uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They dug many holes to study the soil profile, which is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

The soils and miscellaneous areas in the survey area are in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landscape or segment of the landscape. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landscape, soil scientists develop a concept, or model, of how the soils were formed. Thus, during mapping, this model enables the soil scientists to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Individual soils on the landscape commonly merge into one another as their characteristics gradually change. To construct an accurate map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they observed. The maximum depth of observation was about 80 inches (6.7 feet). Soil scientists noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, soil reaction, and other features that enable them to identify soils. After describing the soils in the survey area and
determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Interpretations are modified as necessary to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a zone in which the soil moisture status is wet within certain depths in most years, but they cannot predict that this zone will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

The descriptions, names, and delineations of the soils in this survey area may not fully agree with those of the soils in adjacent survey areas. Differences are the result of a better knowledge of soils, modifications in series concepts, or variations in the intensity of mapping or in the extent of the soils in the survey areas.
Formation and Classification of the Soils

This section relates the soils in the survey area to the major factors of soil formation and describes the system of soil classification.

Formation of the Soils

Soil is produced by the action of soil-forming processes on materials deposited or accumulated by geologic forces. The characteristics of the soil in a given area are determined by (1) the physical and mineralogical composition of the parent material; (2) the climate under which the soil material has accumulated and existed since accumulation; (3) the living organisms on and in the soil, mainly vegetation; (4) the relief, or lay of the land; and (5) the length of time the forces of soil formation have acted on the soil material. The relative effect of each of these factors is reflected in the soil profile.

During the transformation of the parent material into soil, minerals are weathered and organic matter accumulates. Material in suspension or in solution moves downward through the soil, and new chemical compounds and new minerals form.

In Hennepin County, differences in parent material and vegetation account for most of the differences among the soils. Climate and relief are fairly uniform throughout the county, and all of the soils have been developing for about the same length of time.

All five factors of soil formation are interrelated. When one factor changes, changes in the other four factors result. The individual factors of soil formation are described separately in the paragraphs that follow.

Climate

Given adequate time, climate will eventually dominate the soil-forming process. Temperature and precipitation are the most commonly measured climatic factors that influence soil formation. Climate influences the chemical and physical reactions that are required for the development of the soil profile. Climate also influences the natural vegetation that grows in a particular region. Hennepin County has a subhumid, continental climate that favored the growth of both grassland and forest vegetation.

The temperature varies widely from summer to winter in Hennepin County. Generally, the soils are frozen 4 or 5 months each year. Temperature influences the physical, chemical, and biological activities that affect mineral weathering and microbial activities in soils. The rate of chemical and biological processes responsible for soil formation decreases during the winter because mineral weathering or microbial activity does not occur when the soils are frozen. Alternate freezing and thawing cycles in the fall and spring create expansion and contraction pressures that rupture mineral material and increase the surface area available for mineral weathering. These cycles also play a role in the development of soil structure. Temperature influences the accumulation and decomposition of organic matter in soils. As the temperature rises, the rate of organic decomposition and nutrient cycling increases. Temperature controls effective rainfall through its influence on potential evapotranspiration, which increases with increasing mean annual temperature.

Precipitation is essential to soil formation. Water is necessary for plant and animal growth and for the chemical reactions that involve mineral weathering. Water transports colloidal material and dissolved solids from one part of the profile to another. It transports the material downward or completely out of the profile through leaching, or it transports soluble salts upward through capillary action.

Living Organisms

The soils in the survey area formed under prairie grasses, forbs, and forest vegetation. The largest area of grassland that existed in the survey area is the outwash plain along the Mississippi River, but even here, oaks have invaded to some extent. Hubbard and Dorset soils formed in this area. These soils are classified as Mollisols. Melanization, the darkening of soil by the addition of organic matter, is the dominant soil-forming process in Mollisols. Most of the growth in grassland plant communities occurs in the roots rather than in the upper parts of the plant. Therefore, most of the organic matter added to grassland soils is incorporated directly into the soil upon the dieback of
Soils that form under forest vegetation typically have a surface soil horizon that is thinner and lighter in color than that of the soils that formed under grasses because the organic matter biomass accumulation under forests is less than under grasses. Forested soils are also characterized by a loss of oxides and clay in some horizons and an accumulation in other horizons. The soil horizon in which clays and oxides accumulate is referred to as an argillic horizon. Many of the soils in Hennepin County, such as Lester and Angus soils, exhibit characteristics typical of soils that formed under both grassland and forest vegetation. The survey area is in a transition zone.

Humans can affect soil formation by altering the soil-forming processes. They change the kind of vegetation in an area and alter the rates of runoff and water infiltration.

**Topography**

Relief is an important factor in soil formation because it affects drainage, aeration, and erosion. Differences in relief can account for the development of different soils in similar parent material. Because relief influences runoff and drainage, it can affect the types of vegetation present and the chemical changes on and in the soil. Soil profile development occurs most rapidly on well drained, gentle slopes. Soil development is very slow on steep slopes where runoff is rapid, infiltration is slow, and geologic erosion removes the surface soil about as quickly as it forms. Excessive runoff reduces the amount of water that is available to leach the soil and for use by plants, and it can increase the hazard of erosion.

Topographic position on the landscape affects the drainage class of the soil.

Differences in topography also influence the development of different soils that formed in the same kind of parent material. For example, Lester, Le Sueur, Cordova, and Glencoe soils all formed in calcareous, gray till. The drainage class of each soil is predictable based on the particular landscape position of each. Lester soils formed mainly on sloping side slopes and are well drained; Le Sueur soils formed in nearly level and slightly sloping areas and are somewhat poorly drained; the poorly drained Cordova soils formed in level areas where runoff was very slow; and the very poorly drained Glencoe soils are in depressions that are ponded with water.

**Parent Material**

Hennepin County was covered by drift of the Grantsburg sublobe. The drift is composed of relatively recent material derived through the reworking of older deposits. The thickness of the drift ranges from a few feet in the southeast corner of the county near Fort Snelling to about 450 feet in preglacial valleys. In most places the drift is 100 to 200 feet deep. The most extensive sources of parent material are glacial till and glacial outwash. Smaller areas consist of alluvium, glaciolacustrine deposits, and organic material.

The differences among these parent materials account for many of the differences in the soils. Parent material is a mixture of clay, unweathered minerals, and rock fragments that vary widely in their composition and density.

**Glacial till**—Glacial till refers to drift that is not stratified. A number of continental glaciers are believed to have covered all of Hennepin County. The material deposited by these glaciers lies deeply buried under the more recent Wisconsin glacial deposits. The uppermost deposits were laid down during the late stages of what geologists refer to as the Wisconsin Glaciation. This glacial age deposited different types of glacial material and provided the parent material in which the soils in Hennepin County formed.

The oldest drift was deposited by the ice of the Superior lobe, which flowed into the area from the north and covered the entire county. This glacier deposited till that is reddish brown, generally sandy in texture, and noncalcareous. This material is commonly known as red till. Pebbles of basalt, felsite, and red sandstone are common. Kingsley soils formed in red till.

Somewhat later, the Grantsburg sublobe, a protrusion of the Des Moines lobe, advanced into the area. This lobe moved in a northeasterly direction across the county and followed the lowland across the east-central part of the state. The till deposited by the Des Moines lobe is commonly referred to as gray till. The gray till covers nearly all of the red till, except in small areas in the eastern part of the county. In some places the Grantsburg sublobe picked up till previously deposited by the Superior lobe; consequently, complex mixtures of reddish brown and light olive brown drift were deposited in some areas.

The till of this last glaciation is grayish brown or light
olive brown in areas where drainage is good and the material had access to air. In poorly drained areas, the till is olive gray. The gray till is derived mostly from limestone and shale particles, but it contains enough granite and sandstone to provide an abundance of minerals. This material is calcareous and contains many limestone pebbles. The content of carbonates is high (15 to 25 percent), and the material effervesces strongly with hydrochloric acid. In most places this till is friable loam that contains 18 to 24 percent clay, 30 to 40 percent silt, and 35 to 50 percent sand. Lester and Nessel soils formed in gray till.

In the western part of Medina, the eastern two-thirds of Independence, the eastern half of Minnetrista, and the western part of Orono and in small scattered tracts elsewhere, the loam till is mantled with a veneer of clayey till, 3 to 20 feet thick. The texture is typically clay loam. This material appears to be denser than the loam till, generally contains more shale, and has a greater concentration of lime carbonates along fracture planes. Kilkenny soils formed in this clayey till.

Glacial lacustrine deposits—During the retreat of the Grantsburg sublobe, it appears that ice stagnated in many parts of the county. Lakes probably formed in depressions in the ice in the late stages of melting, and the bottoms of the lakes or ponds rested on gray till and the walls formed by the melting ice. Lacustrine sediments, 2 to more than 10 feet in thickness, were deposited in these glacial lakes. These sediments occupy irregular tracts ranging from 2 acres to about 160 acres in size, mostly in the central and southwestern parts of the county. The sediments have a rather abrupt margin, and the depth of sediment varies greatly within short distances. Most of the sediments are silty clay in the upper 2 to 5 feet and silt loam below that depth. Bygland and Minnetonka are examples of soils that formed in lacustrine sediments.

Glacial outwash or collapsed alluvium—As the stagnant ice melted, alluvium consisting of sand and gravel was deposited in places on the lower lying stagnant ice. When the ice below finally melted, an undulating to hilly landscape resulted.

The largest area of glacial outwash or collapsed alluvium occurs in the southern part of the county near the Minnesota River. The landscape in this area is undulating to hilly. The parent material includes stratified sand and gravel with a 1/2-foot to 5-foot veneer of loamy material. A number of smaller areas of glacial outwash or collapsed alluvium also occur in the county. A gently undulating to rolling area occurs in a belt 1/4 mile to 2 miles wide between Delano and Dayton. The parent material in this area consists mainly of sand and of sand with a thin mantle of loamy alluvium. Two small areas of outwash or collapsed alluvium that consists mainly of stratified sand and gravel with a thin mantle of loamy alluvium are in the east-central part of the county. One area is just north of Gleason Lake and extends in a belt 1/4 mile to 1 1/2 miles wide to the western shore of Medicine Lake. The other area occurs just off the eastern side of Lake Minnetonka.

In places in the eastern part of the county, the coarse alluvium probably filled crevasses in the stagnant ice. When the ice field melted, the coarse alluvium remained as an elevated ridge. Crevasse ridges range from 50 to 125 feet in height, from 200 to 500 feet in width, and from 500 feet to 1 1/2 miles in length (Lueth, 1974).

Finally, the Grantsburg sublobe retreated westward, and as a result the Mississippi Valley was uncovered. Meltwater from the wasting Des Moines lobe filled the valley in Hennepin County with coarse alluvium. This coarse alluvium, referred to by some as stream outwash, occupies an extensive area in the northeastern part of the county. This material is mainly sand, but small areas of stratified calcareous sand and gravel are near Osseo. Hubbard soils formed in sandy alluvium. Dorset soils formed in a thin, loamy veneer over stratified sand and gravel. The gravel and sand deposits are mainly more than 20 feet in thickness, but in a few places they are only a few feet thick over gray or red till.

In the extreme southeast corner of the county, the coarse alluvium is underlain by limestone and sandstone bedrock within a depth of 5 feet.

As the glacier retreated, large blocks of ice were left in the till and outwash. The melting of the ice blocks produced depressions in all of the glacial deposits, and most of these depressions are now lakes or marsh. Organic soils developed in the depressions where water stood for part of the year and along drainageways that were frequently flooded. The organic material ranges from 1 foot to more than 10 feet in thickness.

Recent alluvium—Recent alluvium refers to alluvium that has been deposited by streams during past glacial times. Recent alluvium was deposited on the flood plains of all the streams in the county. The largest areas of alluvium are on the broad flood plains along the Minnesota River. The material varies widely in color, texture, and reaction. Chaska soils are examples of soils that formed in alluvium. In most places the material is too recent for a profile to have formed.
**Time**

The length of time the parent material has been in place and exposed to the soil-forming processes is an important factor in soil formation. Time is required for the parent material to be changed into a natural body that has genetically related horizons.

A mature soil is one that has well defined horizons. An immature soil is one that shows little or no horizonation. Because of differences in parent material, climate, relief, and organisms, soils that have been developing for about the same length of time have not necessarily reached the same degree of profile development. If the parent material weathers slowly, profile development is slow. If the slope is steep, soil is removed almost as soon as it forms and, consequently, no well defined horizons develop. In terms of geologic time, the soils in Hennepin County are quite young.

**Classification of the Soils**

The system of soil classification used by the National Cooperative Soil Survey has six categories (Soil Survey Staff, 1998 and 1999). Beginning with the broadest, these categories are the order, suborder, great group, subgroup, family, and series. Classification is based on soil properties observed in the field or inferred from those observations or from laboratory measurements. Table 1 shows the classification of the soils in the survey area. The categories are defined in the following paragraphs.

**ORDER.** Twelve soil orders are recognized. The differences among orders reflect the dominant soil-forming processes and the degree of soil formation. Each order is identified by a word ending in sol. An example is Mollisol.

**SUBORDER.** Each order is divided into suborders primarily on the basis of properties that influence soil genesis and are important to plant growth or properties that reflect the most important variables within the orders. The last syllable in the name of a suborder indicates the order. An example is Aquoll (Aqu, meaning water, plus oll, from Mollisol).

**GREAT GROUP.** Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of development of pedogenic horizons; soil moisture and temperature regimes; and base status. Each great group is identified by the name of a suborder and by a prefix that indicates a property of the soil. An example is Endoaquolls (Endo, meaning within, plus aquoll, the suborder of the Mollisols that has an aquic moisture regime).

**SUBGROUP.** Each great group has a typic subgroup. Other subgroups are intergrades or extrarades. The typic is the central concept of the great group; it is not necessarily the most extensive. Intergrades are transitions to other orders, suborders, or great groups. Extrarades have some properties that are not representative of the great group but do not indicate transitions to any other known kind of soil. Each subgroup is identified by one or more adjectives preceding the name of the great group. The adjective Typic identifies the subgroup that typifies the great group. An example is Typic Endoaquolls.

**FAMILY.** Families are established within a subgroup on the basis of physical and chemical properties and other characteristics that affect management. Generally, the properties are those of horizons below plow depth where there is much biological activity. Among the properties and characteristics considered are particle-size class, mineralogy class, cation-exchange activity class, soil temperature regime, soil depth, and reaction class. A family name consists of the name of a subgroup preceded by terms that indicate soil properties. An example is fine-loamy, mixed, superactive, calcareous, mesic Typic Endoaquolls.

**SERIES.** The series consists of soils that have similar horizons in their profile. The horizons are similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile. The texture of the surface layer or of the substratum can differ within a series. The soils of the Canisteo series are fine-loamy, mixed, superactive, calcareous, mesic Typic Endoaquolls.

The Official Soil Series Descriptions (OSDs) provide the most current information about the series mapped in Hennepin County. These descriptions are available on the Web at [http://soils.usda.gov](http://soils.usda.gov).
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<tr>
<th>Soil name</th>
<th>Family or higher taxonomic class</th>
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<tr>
<td>Algansee</td>
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<td>Angus</td>
<td>Fine-loamy, mixed, superactive, mesic Mollic Hapludalfs</td>
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<td>Coarse-loamy, mixed, superactive, frigid Lamellic Hapludalfs</td>
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<td>Biscay</td>
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<td>Loamy, mixed, superactive, frigid Oxyaquic Hapludalfs</td>
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Table 1.—Classification of the Soils—Continued

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<td>Zimmerman</td>
<td>Mixed, frigid Lamellic Udipsamments</td>
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Soil Map Unit Descriptions

This section includes the soil map unit descriptions for the soil series mapped in Hennepin County. Characteristics of the soil and the material in which it formed are identified for each soil series. A brief description of the soil profile is provided in the map unit descriptions. For more information about a soil series, the official series description can be viewed or downloaded from the Web. The detailed descriptions follow standards in the “Soil Survey Manual” (Soil Survey Division Staff, 1993). Many of the technical terms used in the descriptions are defined in “Keys to Soil Taxonomy” (Soil Survey Staff, 1998).

The map units on the soil maps in this survey represent the soils or miscellaneous areas in the survey area. These soils or miscellaneous areas are listed as individual components in the map unit descriptions. The map unit descriptions in this section, along with the maps, can be used to determine the suitability and potential of a unit for specific uses. They also can be used to plan the management needed for those uses. More information about each map unit is provided in the tables (see Contents).

A map unit delineation on the soil maps represents an area on the landscape. It is identified by differences in the properties and taxonomic classification of components and by the percentage of each component in the map unit.

Components that are dissimilar, or contrasting, are identified in the map unit description. Dissimilar components are those that have properties and behavioral characteristics divergent enough from those of the major components to affect use or to require different management. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps.

Components that are similar to the major components (noncontrasting) are not identified in the map unit description. Similar components are those that have properties and behavioral characteristics similar enough to those of the major components that they do not affect use or require different management.

The presence of multiple components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into segments that have similar use and management requirements. The delineation of such landscape segments on the map provides sufficient information for the development of resource plans, but if intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol is used for each map unit on the soil maps. This symbol precedes the map unit name in the map unit descriptions. Each description includes general information about the unit. The map unit descriptions include representative values in feet and the months in which wet soil moisture status is highest and lowest in the soil profile and ponding is shallowest and deepest on the soil surface. They also include the classes of flooding and the months in which flooding is least and most likely to occur. Tables 20, 21, and 22 provide a complete display of this data for every month of the year. The available water capacity given in each map unit description is calculated for all horizons in the upper 60 inches of the soil profile. The organic matter content displayed in each map unit description is calculated for all horizons in the upper 10 inches of the soil profile, except those that represent the surface duff layer on forested soils. Table 18 provides a complete display of available water capacity and organic matter content by horizon.

The principal hazards and limitations to be considered in planning for specific uses are described in other sections of this survey.

Soils that have profiles that are almost alike make up a soil series. Except for differences in texture of the surface layer or of the underlying layers, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer or of the underlying layers. They also can differ in slope, stoniness, salinity, wetness, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into soil phases. The name of a soil phase commonly indicates a feature that affects use or management. For example, Hubbard loamy sand,
0 to 2 percent slopes, is a phase of the Hubbard series.

A map unit is named for the component or components that make up a dominant percentage of the map unit. Many map units consist of one dominant component. These map units are consociations. Cordova loam, 0 to 2 percent slopes, is an example.

Some map units are made up of two or more dominant components. These map units are complexes or undifferentiated groups.

A complex consists of two or more components in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. Attempting to delineate the individual components of a complex would result in excessive clutter that could make the map illegible. The pattern and proportion of the components are somewhat similar in all areas. Lester-Kilkenny complex, 18 to 25 percent slopes, is an example.

An undifferentiated group is made up of two or more components that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the components in a mapped area are not uniform. An area can be made up of only one of the dominant components, or it can be made up of all of them. Medo, Dassel, and Biscay soils, ponded, 0 to 1 percent slopes, is an undifferentiated group in this survey area.

This survey includes miscellaneous areas. Such areas have little or no soil material and support little or no vegetation. Urban land is an example.

The abbreviation “MAP” in a map unit name stands for “mean annual precipitation.” The numbers that follow the abbreviation refer to a range in inches. Table 2 gives the acreage and proportionate extent of each map unit. Other tables (see Contents) give properties of the soils and the limitations, capabilities, and potentials for many uses. The Glossary defines many of the terms used in describing the soils or miscellaneous areas.

D1B—Anoka and Zimmerman soils, terrace, 2 to 6 percent slopes

Component Description

Anoka, terrace, and similar soils
Extent: 30 to 60 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Summits, shoulders, and backslopes
Slope range: 2 to 6 percent

Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
Ap—0 to 10 inches; loamy fine sand
E, E&Bt—10 to 60 inches; fine sand

Zimmerman, terrace, and similar soils
Extent: 30 to 60 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Backslopes, shoulders, and summits
Slope range: 2 to 4 percent
Texture of the surface layer: Fine sand
Depth to restrictive feature: Fine sand
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 0.9 percent
Typical profile:
Ap—0 to 9 inches; fine sand
E, E&Bt—9 to 60 inches; fine sand

Kost
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap—0 to 14 inches; loamy fine sand
Bw—14 to 33 inches; fine sand
C—33 to 60 inches; sand

D1C—Anoka and Zimmerman soils, terrace, 6 to 12 percent slopes

Component Description

Anoka, terrace, and similar soils
Extent: 35 to 65 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Backslopes, shoulders, and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
Ap—0 to 10 inches; loamy fine sand
E,E&Bt—10 to 60 inches; fine sand

Zimmerman, terrace, and similar soils
Extent: 35 to 65 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Summits, shoulders, and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 0.9 percent
Typical profile:
Ap—0 to 9 inches; fine sand
E,E&Bt—9 to 60 inches; fine sand

Kost
Extent: 5 to 15 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Backslopes
Slope range: 6 to 10 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 14 inches; loamy fine sand
Bw—14 to 33 inches; fine sand
C—33 to 60 inches; sand

D2A—Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded

Component Description

Elkriver, rarely flooded, and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Alluvium
Flooding does not occur (months): January, February, July, August, September, October, November, December
Flooding is most likely (frequency, months): Rare (March, April, May, June)
Wet soil moisture status is highest (depth, months): 3 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (September)
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 4.5 percent
Typical profile:
   Ap—0 to 10 inches; fine sandy loam
   A1,A3—10 to 35 inches; fine sandy loam
   Bw—35 to 39 inches; fine sandy loam
   2C—39 to 80 inches; sand

Mosford, rarely flooded

Extent: 0 to 15 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Alluvium
Flooding does not occur (months): January, February, July, August, September, October, November, December
Flooding is most likely (frequency, months): Rare (March, April, May, June)
Wet soil moisture status is highest (depth, months): 5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, March, June, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 5 inches
Content of organic matter in the upper 10 inches: 4.5 percent
Typical profile:
   Ap—0 to 11 inches; fine sandy loam
   Bw1—11 to 16 inches; fine sandy loam
   Bw2,C2—16 to 57 inches; fine sand
   C3—57 to 80 inches; gravelly sand

Elkriver, occasionally flooded

Extent: 0 to 10 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months): Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 7.4 inches
Content of organic matter in the upper 10 inches: 4.5 percent
Typical profile:
   Ap—0 to 10 inches; fine sandy loam
   A1,A3—10 to 26 inches; fine sandy loam
   Bw—26 to 32 inches; very fine sandy loam
   2C—32 to 80 inches; sand

D3A—Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded

Component Description

Elkriver, occasionally flooded, and similar soils

Extent: 75 to 95 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months): Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 7.4 inches
Content of organic matter in the upper 10 inches: 4.5 percent
Typical profile:
   Ap—0 to 10 inches; fine sandy loam
   A1,A3—10 to 26 inches; fine sandy loam
   Bw—26 to 32 inches; very fine sandy loam
   2C—32 to 80 inches; sand

Fordum, frequently flooded

Extent: 5 to 20 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Drainageways
Slope range: 0 to 1 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months): Frequent (March, April, May, June)
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.8 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 6.6 inches
Content of organic matter in the upper 10 inches: 5.2 percent
Typical profile:
A—0 to 7 inches; fine sandy loam
Cg—7 to 28 inches; sandy loam
2Cg—28 to 80 inches; sand

Winterfield, occasionally flooded
Extent: 0 to 10 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, August, September, October, November, December
Flooding is most likely (frequency, months): Occasional (March, April, May, June, July)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (September)
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap,A—0 to 12 inches; sandy loam
Bt—12 to 20 inches; coarse sandy loam
2BC—20 to 27 inches; gravelly coarse sand
2C—27 to 60 inches; gravelly coarse sand

D4A—Dorset sandy loam, 0 to 2 percent slopes

Component Description

Dorset and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap,A—0 to 12 inches; sandy loam
Bt—12 to 20 inches; coarse sandy loam
2BC—20 to 27 inches; gravelly coarse sand
2C—27 to 60 inches; gravelly coarse sand

Verndale, acid substratum
Extent: 0 to 15 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 19 inches; sandy loam
2Bw—19 to 28 inches; sand
2C—28 to 80 inches; sand
Almora

Extent: 0 to 5 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 7.7 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
Ap—0 to 10 inches; loam
BE—10 to 14 inches; fine sandy loam
Bt—14 to 36 inches; loam
2Bt—36 to 41 inches; loamy sand
2C—41 to 80 inches; gravelly coarse sand

Verndale, acid substratum

Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Footslopes and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 19 inches; sandy loam
2Bw—19 to 28 inches; sand
2C—28 to 80 inches; sand

D4B—Dorset sandy loam, 2 to 6 percent slopes

Component Description

Dorset and similar soils

Extent: 75 to 95 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Summits, backslopes, and shoulders
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap,A—0 to 12 inches; sandy loam
Bt—12 to 20 inches; coarse sandy loam
2BC—20 to 27 inches; gravelly coarse sand
2C—27 to 60 inches; gravelly coarse sand

Almora

Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 7.7 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
Ap,A—0 to 12 inches; sandy loam
Bt—10 to 14 inches; fine sandy loam
Bt—14 to 36 inches; loam
2Bt—36 to 41 inches; loamy sand
2C—41 to 80 inches; gravelly coarse sand
D4C—Dorset sandy loam, 6 to 12 percent slopes

Component Description

Dorset and similar soils

Extent: 70 to 85 percent of the unit
Geomorphologic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Backslopes, shoulders, and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap,A—0 to 11 inches; sandy loam
Bt—11 to 19 inches; sandy loam
2BC—19 to 32 inches; gravelly loamy sand
2C—32 to 80 inches; gravelly coarse sand

Verndale, acid substratum

Extent: 5 to 20 percent of the unit
Geomorphologic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Backslopes and shoulders
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:

Ap—0 to 10 inches; sandy loam
BE—10 to 14 inches; fine sandy loam
Bt—14 to 36 inches; loam
2Bt—36 to 41 inches; loamy sand
2C—41 to 80 inches; gravelly coarse sand

2Bw—19 to 28 inches; sand
2C—28 to 80 inches; sand

D5B—Dorset-Two Inlets complex, 2 to 6 percent slopes

Component Description

Dorset and similar soils

Extent: 50 to 75 percent of the unit
Geomorphologic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and shoulders
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
**Typical profile:**
- Ap.A—0 to 11 inches; sandy loam
- Bt—11 to 19 inches; sandy loam
- 2B—19 to 32 inches; gravelly loamy sand
- 2C—32 to 80 inches; gravelly coarse sand

**Two Inlets and similar soils**

- **Extent:** 20 to 30 percent of the unit
- **Geomorphic setting:** Hills on outwash plains; hills on stream terraces
- **Position on the landform:** Shoulders
- **Slope range:** 2 to 6 percent
- **Texture of the surface layer:** Loamy sand
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Excessively drained
- **Parent material:** Outwash
- **Flooding:** None
- **Depth to wet soil moisture status:** More than 6.7 feet all year
- **Ponding:** None
- **Available water capacity to a depth of 60 inches:** 3.2 inches
- **Content of organic matter in the upper 10 inches:** 0.7 percent

**Verndale, acid substratum**

- **Extent:** 0 to 10 percent of the unit
- **Geomorphic setting:** Hills on outwash plains; hills on stream terraces
- **Position on the landform:** Shoulders
- **Slope range:** 2 to 6 percent
- **Texture of the surface layer:** Loamy sand
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Excessively drained
- **Parent material:** Outwash
- **Flooding:** None
- **Depth to wet soil moisture status:** More than 6.7 feet all year
- **Ponding:** None
- **Available water capacity to a depth of 60 inches:** 3.2 inches
- **Content of organic matter in the upper 10 inches:** 0.7 percent

**Southhaven**

- **Extent:** 0 to 10 percent of the unit
- **Geomorphic setting:** Outwash plains and stream terraces
- **Position on the landform:** Swales
- **Slope range:** 0 to 2 percent
- **Texture of the surface layer:** Loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Well drained
- **Parent material:** Outwash
- **Flooding:** None
- **Wet soil moisture status is highest (depth, months):**
  - 3.5 feet (April, May)
- **Wet soil moisture status is lowest (depth, months):**
  - More than 6.7 feet (August, September, October)
- **Ponding:** None
- **Available water capacity to a depth of 60 inches:** 11 inches
- **Content of organic matter in the upper 10 inches:** 6 percent

**Typical profile:**
- Ap.A3—0 to 48 inches; loam
- Bw—48 to 62 inches; loam
- 2Bw—62 to 66 inches; loamy sand
- 2C—66 to 80 inches; sand

**D5C—Dorset-Two Inlets complex, 6 to 12 percent slopes**

**Component Description**

**Dorset and similar soils**

- **Extent:** 50 to 65 percent of the unit
- **Geomorphic setting:** Hills on outwash plains; hills on stream terraces
- **Position on the landform:** Summits and backslopes
- **Slope range:** 6 to 12 percent
- **Texture of the surface layer:** Sandy loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Well drained
- **Parent material:** Outwash
- **Flooding:** None
- **Depth to wet soil moisture status:** More than 6.7 feet all year
- **Ponding:** None
- **Available water capacity to a depth of 60 inches:** 4.7 inches
- **Content of organic matter in the upper 10 inches:** 2.5 percent

**Typical profile:**
- Ap.A—0 to 11 inches; sandy loam
Bt—11 to 19 inches; sandy loam
2BC—19 to 32 inches; gravelly loamy sand
2C—32 to 80 inches; gravelly coarse sand

Two Inlets and similar soils
Extent: 20 to 40 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Shoulders
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.2 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
Ap—0 to 9 inches; loamy sand
Bt—9 to 19 inches; gravelly loamy sand
C—19 to 80 inches; gravelly sand

Southhaven
Extent: 5 to 15 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet (April, May)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (August, September, October)
Ponding: None
Available water capacity to a depth of 60 inches: 11 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A3—0 to 48 inches; loam
Bw—48 to 62 inches; loam
2Bw—62 to 66 inches; loamy sand
2C—66 to 80 inches; sand

Verdale, acid substratum
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and footslopes
Slope range: 6 to 9 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 9 inches; sandy loam
Bt—10 to 19 inches; sandy loam
2Bw—19 to 28 inches; sand
2C—28 to 80 inches; sand

D5D—Dorset-Two Inlets complex, 12 to 18 percent slopes

Component Description
Dorset and similar soils
Extent: 45 to 60 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 12 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
Ap,A3—0 to 9 inches; sandy loam
Bt—9 to 14 inches; sandy loam
Two Inlets and similar soils

Extent: 25 to 40 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Shoulders
Slope range: 12 to 18 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.2 inches
Content of organic matter in the upper 10 inches: 0.7 percent
Typical profile:
Ap—0 to 9 inches; loamy sand
Bt—9 to 19 inches; gravelly loamy sand
C—19 to 80 inches; gravelly sand

Southhaven

Extent: 5 to 15 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Swales
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet (April, May)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (August, September, October)
Ponding: None
Available water capacity to a depth of 60 inches: 11 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap,A3—0 to 48 inches; loam
Bw—48 to 62 inches; loam
2Bw—62 to 66 inches; loamy sand
2C—66 to 80 inches; sand

Verndale, acid substratum

Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Footslopes and backslopes
Slope range: 6 to 9 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 19 inches; sandy loam
2Bw—19 to 28 inches; sand
2C—28 to 80 inches; sand

D6A—Verndale sandy loam, acid substratum, 0 to 2 percent slopes

Component Description

Verndale, acid substratum, and similar soils

Extent: 80 to 100 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 19 inches; sandy loam
Dorset

Extent: 0 to 15 percent of the unit
Geomorph setting: Stream terraces and outwash plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
- Ap,A—0 to 12 inches; sandy loam
- Bt—12 to 20 inches; coarse sandy loam
- 2BC—20 to 27 inches; gravelly coarse sand
- 2C—27 to 60 inches; gravelly coarse sand

Hubbard

Extent: 0 to 5 percent of the unit
Geomorph setting: Outwash plains and stream terraces
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
- Ap,AB—0 to 20 inches; loamy sand
- Bw—20 to 32 inches; loamy sand
- BC,C—32 to 80 inches; sand

D6B—Verndale sandy loam, acid substratum, 2 to 6 percent slopes

Component Description

Verndale, acid substratum, and similar soils

Extent: 75 to 100 percent of the unit
Geomorph setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Summits and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
- Ap—0 to 10 inches; sandy loam
- Bt—10 to 19 inches; sandy loam
- 2Bw—19 to 28 inches; sand
- 2C—28 to 80 inches; sand

Dorset

Extent: 0 to 15 percent of the unit
Geomorph setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Summits and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
- Ap,A—0 to 12 inches; sandy loam
- Bt—12 to 20 inches; coarse sandy loam
2BC—20 to 27 inches; gravelly coarse sand
2C—27 to 60 inches; gravelly coarse sand

**Hubbard**

*Extent:* 0 to 10 percent of the unit

*Geomorphic setting:* Hills on stream terraces; hills on outwash plains

*Position on the landform:* Shoulders

*Slope range:* 2 to 6 percent

*Texture of the surface layer:* Loamy sand

*Depth to restrictive feature:* Very deep (more than 60 inches)

*Drainage class:* Excessively drained

*Parent material:* Outwash

*Flooding:* None

*Depth to wet soil moisture status:* More than 6.7 feet all year

*Ponding:* None

*Available water capacity to a depth of 60 inches:* 3.9 inches

*Content of organic matter in the upper 10 inches:* 3 percent

**Typical profile:**

Ap, A—0 to 18 inches; loamy sand
Bw—18 to 23 inches; loamy sand
BC, C—23 to 80 inches; sand

**D6C—Verndale sandy loam, acid substratum, 6 to 12 percent slopes**

*Component Description*

**Verndale, acid substratum, and similar soils**

*Extent:* 80 percent of the unit

*Geomorphic setting:* Hills on stream terraces; hills on outwash plains

*Position on the landform:* Backslopes and summits

*Slope range:* 6 to 12 percent

*Texture of the surface layer:* Sandy loam

*Depth to restrictive feature:* Very deep (more than 60 inches)

*Drainage class:* Somewhat excessively drained

*Parent material:* Outwash

*Flooding:* None

*Depth to wet soil moisture status:* More than 6.7 feet all year

*Ponding:* None

*Available water capacity to a depth of 60 inches:* 4.8 inches

*Content of organic matter in the upper 10 inches:* 2.5 percent

**Typical profile:**

Ap, A—0 to 11 inches; sandy loam
Bt—11 to 19 inches; sandy loam
2BC—19 to 32 inches; gravelly loamy sand
2C—32 to 80 inches; gravelly coarse sand

**Dorset**

*Extent:* 15 percent of the unit

*Geomorphic setting:* Hills on outwash plains; hills on stream terraces

*Position on the landform:* Backslopes and summits

*Slope range:* 6 to 12 percent

*Texture of the surface layer:* Sandy loam

*Depth to restrictive feature:* Very deep (more than 60 inches)

*Drainage class:* Well drained

*Parent material:* Outwash

*Flooding:* None

*Depth to wet soil moisture status:* More than 6.7 feet all year

*Ponding:* None

*Available water capacity to a depth of 60 inches:* 4.7 inches

*Content of organic matter in the upper 10 inches:* 3 percent

**Typical profile:**

Ap, A—0 to 10 inches; sandy loam
Bt—10 to 19 inches; sandy loam
2Bw—19 to 28 inches; sand
2C—28 to 80 inches; sand

**Hubbard**

*Extent:* 5 percent of the unit

*Geomorphic setting:* Hills on stream terraces; hills on outwash plains

*Position on the landform:* Shoulders

*Slope range:* 6 to 12 percent

*Texture of the surface layer:* Loamy sand

*Depth to restrictive feature:* Very deep (more than 60 inches)

*Drainage class:* Excessively drained

*Parent material:* Outwash

*Flooding:* None

*Depth to wet soil moisture status:* More than 6.7 feet all year

*Ponding:* None

*Available water capacity to a depth of 60 inches:* 3.6 inches

*Content of organic matter in the upper 10 inches:* 2 percent

**Typical profile:**

Ap, AB—0 to 12 inches; loamy sand
Bw—12 to 33 inches; coarse sand
C—33 to 80 inches; coarse sand
**D7A—Hubbard loamy sand, 0 to 2 percent slopes**

*Component Description*

**Hubbard and similar soils**

*Extent:* 85 to 100 percent of the unit  
*Geomorphologic setting:* Stream terraces and outwash plains  
*Position on the landform:* Flats  
*Slope range:* 0 to 2 percent  
*Texture of the surface layer:* Loamy sand  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 4 inches  
*Content of organic matter in the upper 10 inches:* 3 percent  
*Typical profile:*  
- Ap,AB—0 to 20 inches; loamy sand  
- Bw—20 to 32 inches; loamy sand  
- Bw—32 to 80 inches; sand

**Mosford**

*Extent:* 0 to 10 percent of the unit  
*Geomorphologic setting:* Outwash plains and stream terraces  
*Position on the landform:* Swales  
*Slope range:* 0 to 2 percent  
*Texture of the surface layer:* Sandy loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 5.1 inches  
*Content of organic matter in the upper 10 inches:* 3 percent  
*Typical profile:*  
- Ap,A—0 to 13 inches; sandy loam  
- Bw—13 to 16 inches; coarse sandy loam  
- Bw—16 to 35 inches; coarse sand  
- Bw—35 to 80 inches; sand

**D7B—Hubbard loamy sand, 2 to 6 percent slopes**

*Component Description*

**Hubbard and similar soils**

*Extent:* 85 to 100 percent of the unit  
*Geomorphologic setting:* Hills on outwash plains; hills on stream terraces  
*Position on the landform:* Summits, shoulders, and backslopes  
*Slope range:* 2 to 6 percent  
*Texture of the surface layer:* Loamy sand  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 3.9 inches  
*Content of organic matter in the upper 10 inches:* 3 percent  
*Typical profile:*  
- Ap,A—0 to 18 inches; loamy sand  
- Bw—18 to 23 inches; loamy sand  
- Bw—23 to 80 inches; sand

**Mosford**

*Extent:* 0 to 15 percent of the unit  
*Geomorphologic setting:* Stream terraces and outwash plains  
*Position on the landform:* Swales  
*Slope range:* 1 to 3 percent  
*Texture of the surface layer:* Sandy loam  
*Depth to restrictive feature:* More than 60 inches  
*Drainage class:* Somewhat excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 5.1 inches  
*Content of organic matter in the upper 10 inches:* 3 percent  
*Typical profile:*  
- Ap,A—0 to 13 inches; sandy loam  
- Bw—13 to 16 inches; coarse sandy loam  
- Bw—16 to 35 inches; coarse sand  
- Bw—35 to 80 inches; sand
D7C—Hubbard loamy sand, 6 to 12 percent slopes

Component Description

Hubbard and similar soils

Extent: 75 to 100 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Backslopes, summits, and shoulders
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
Ap,AB—0 to 12 inches; loamy sand
Bw—12 to 33 inches; coarse sand
C—33 to 80 inches; coarse sand

Sandberg

Extent: 0 to 15 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Shoulders
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.6 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap,A—0 to 14 inches; loamy coarse sand
Bw—14 to 32 inches; gravelly coarse sand
C—32 to 80 inches; sand

Mosford

Extent: 0 to 15 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Swales
Slope range: 1 to 3 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.1 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap,A—0 to 13 inches; sandy loam
Bw—13 to 16 inches; coarse sandy loam
2Bw—16 to 35 inches; coarse sand
2C—35 to 80 inches; sand

D8B—Sandberg loamy coarse sand, 2 to 6 percent slopes

Component Description

Sandberg and similar soils

Extent: 90 to 100 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Summits, shoulders, and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.9 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap,A—0 to 14 inches; loamy coarse sand
Hennepin County, Minnesota

Bw—14 to 32 inches; gravelly coarse sand
C—32 to 80 inches; sand

Arvilla, MAP >25

Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Coarse sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.1 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
  Ap,A—0 to 14 inches; coarse sandy loam
  Bw—14 to 17 inches; coarse sandy loam
  2Bw,2C—17 to 80 inches; gravelly coarse sand

Corliss

Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Summits and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.5 inches
Content of organic matter in the upper 10 inches: 2.2 percent
Typical profile:
  Ap—0 to 7 inches; loamy sand
  Bw—7 to 28 inches; coarse sand
  C—28 to 80 inches; coarse sand

D8C—Sandberg loamy coarse sand, 6 to 12 percent slopes

Component Description

Sandberg and similar soils

Extent: 75 to 95 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Shoulders and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy coarse sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.9 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
  Ap,A—0 to 14 inches; loamy coarse sand
  Bw—14 to 32 inches; gravelly coarse sand
  C—32 to 80 inches; sand

Southhaven

Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet (April, May)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (August, September, October)
Ponding: None
Available water capacity to a depth of 60 inches: 11 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
  Ap,A3—0 to 48 inches; loam
  Bw—48 to 62 inches; loam
  2Bw—62 to 66 inches; loamy sand
  2C—66 to 80 inches; sand
D8D—Sandberg loamy coarse sand, 12 to 18 percent slopes

**Component Description**

**Sandberg and similar soils**

*Extent:* 75 to 90 percent of the unit  
*Geomorphic setting:* Hills on stream terraces  
*Position on the landform:* Shoulders and backslopes  
*Slope range:* 12 to 18 percent  
*Texture of the surface layer:* Loamy coarse sand  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 3.6 inches  
*Content of organic matter in the upper 10 inches:* 2 percent  
**Typical profile:**  
Ap—0 to 11 inches; loamy coarse sand  
Bw—11 to 27 inches; coarse sand  
C—27 to 80 inches; gravelly coarse sand

**Corliss**

*Extent:* 5 to 20 percent of the unit  
*Geomorphic setting:* Hills on stream terraces  
*Position on the landform:* Shoulders and backslopes  
*Slope range:* 12 to 18 percent  
*Texture of the surface layer:* Loamy sand  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 3.6 inches  
*Content of organic matter in the upper 10 inches:* 2.2 percent  
**Typical profile:**  
Ap,A3—0 to 48 inches; loam  
Bw—48 to 62 inches; loam  
2Bw—62 to 66 inches; loamy sand  
2C—66 to 80 inches; sand

**Southhaven**

*Extent:* 5 to 15 percent of the unit  
*Geomorphic setting:* Stream terraces  
*Position on the landform:* Swales  
*Slope range:* 0 to 3 percent  
*Texture of the surface layer:* Loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Well drained  
*Parent material:* Colluvium over outwash  
*Flooding:* None  
*Wet soil moisture status is highest (depth, months):* More than 3.5 feet (April, May)  
*Wet soil moisture status is lowest (depth, months):* More than 6.7 feet (August, September, October)  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 11 inches  
*Content of organic matter in the upper 10 inches:* 6 percent  
**Typical profile:**  
Ap,A3—0 to 48 inches; loam  
Bw—48 to 62 inches; loam  
C—66 to 80 inches; gravelly coarse sand

D8E—Sandberg loamy coarse sand, 18 to 35 percent slopes

**Component Description**

**Sandberg and similar soils**

*Extent:* 70 to 90 percent of the unit  
*Geomorphic setting:* Escarpments  
*Position on the landform:* Backslopes and shoulders  
*Slope range:* 18 to 35 percent  
*Texture of the surface layer:* Loamy coarse sand  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 3.6 inches  
*Content of organic matter in the upper 10 inches:* 2 percent  
**Typical profile:**  
A—0 to 11 inches; loamy coarse sand  
Bw—11 to 27 inches; coarse sand  
C—27 to 80 inches; gravelly coarse sand

**Corliss**

*Extent:* 5 to 20 percent of the unit  
*Geomorphic setting:* Escarpments
Position on the landform: Backslopes and summits
Slope range: 18 to 35 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.5 inches
Content of organic matter in the upper 10 inches: 2.2 percent
Typical profile:
- Ap—0 to 7 inches; loamy sand
- Bw—7 to 28 inches; coarse sand
- C—28 to 80 inches; coarse sand

Southhaven
Extent: 5 to 20 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Toeslopes and footslopes
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: More than 60 inches
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (August, September, October)
Ponding: None
Available water capacity to a depth of 60 inches: 11 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
- Ap,A3—0 to 48 inches; loam
- Bw—48 to 62 inches; loam
- 2Bw—62 to 66 inches; loamy sand
- 2C—66 to 80 inches; sand

D10A—Forada sandy loam, 0 to 2 percent slopes

Component Description
Forada and similar soils
Extent: 85 to 100 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 6.6 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
- Ap—0 to 10 inches; sandy loam
- Bg—10 to 33 inches; loam
- 2Cg—33 to 60 inches; sand

Depressional soil
Extent: 0 to 15 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Outwash
 Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 7.2 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
- Ap,AB—0 to 19 inches; sandy loam
- Bg—19 to 38 inches; loam
- 2Cg—38 to 60 inches; sand
D11A—Lindaas silt loam, 0 to 2 percent slopes

Component Description

Lindaas and similar soils
Extent: 75 to 100 percent of the unit
Geomorphic setting: Lake plains
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Glaciolacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
Ap,A—0 to 16 inches; silt loam
Btg—16 to 32 inches; silty clay
Cg—32 to 80 inches; silty clay loam

Lindaas, sandy substratum
Extent: 5 to 20 percent of the unit
Geomorphic setting: Lake plains
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Glaciolacustrine sediments over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
Ap,A—0 to 14 inches; silt loam
Btg—14 to 20 inches; silty clay
Cg—20 to 62 inches; silty clay loam
2Cg—62 to 80 inches; stratified very gravelly coarse sand to loamy sand

Depressional soil
Extent: 0 to 15 percent of the unit
Geomorphic setting: Lake plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Glaciolacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
Ap,A—0 to 23 inches; silt loam
Btg—23 to 30 inches; silty clay
Cg—30 to 80 inches; silty clay loam

D12B—Bygland silt loam, MAP >25, 2 to 6 percent slopes

Component Description

Bygland, MAP >25, and similar soils
Extent: 65 to 90 percent of the unit
Geomorphic setting: Hills on lake plains
Position on the landform: Summits, backslopes, and shoulders
Slope range: 2 to 6 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciolacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 3 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (July, August, September)
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 11.2 inches  
**Content of organic matter in the upper 10 inches:** 2.8 percent  
**Typical profile:**  
- Ap—0 to 9 inches; silt loam  
- Bt—9 to 23 inches; silty clay  
- BC—23 to 27 inches; silt loam  
- C—27 to 80 inches; stratified silt loam to silty clay loam

**Bygland, sandy substratum**  
**Extent:** 5 to 20 percent of the unit  
**Geomorphic setting:** Hills on lake plains  
**Position on the landform:** Footslopes and backslopes  
**Slope range:** 2 to 6 percent  
**Texture of the surface layer:** Silt loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Moderately well drained  
**Parent material:** Glaciolacustrine sediments over outwash  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** 2.3 feet (April)  
**Wet soil moisture status is lowest (depth, months):** More than 6.7 feet (February, August, September, December)  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 11.5 inches  
**Content of organic matter in the upper 10 inches:** 3 percent  
**Typical profile:**  
- Ap,A—0 to 14 inches; silt loam  
- Btg—14 to 32 inches; silty clay  
- Cg—32 to 80 inches; silty clay loam

**Depressional soil**  
**Extent:** 0 to 10 percent of the unit  
**Geomorphic setting:** Lake plains  
**Position on the landform:** Depressions  
**Slope range:** 0 to 1 percent  
**Texture of the surface layer:** Silt loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Very poorly drained  
**Parent material:** Glaciolacustrine sediments  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** At the surface (April, May, June)  
**Wet soil moisture status is lowest (depth, months):** 1.5 feet (February)  
**Ponding does not occur (months):** January, February, July, August, September, October, November, December  
**Ponding is deepest (depth, months):** 1 foot (March, April, May)  
**Available water capacity to a depth of 60 inches:** 9.5 inches  
**Content of organic matter in the upper 10 inches:** 5 percent  
**Typical profile:**  
- Ap,A—0 to 23 inches; silt loam  
- Btg—23 to 30 inches; silty clay  
- Cg—30 to 80 inches; silty clay loam

**Lindaas**  
**Extent:** 5 to 15 percent of the unit  
**Geomorphic setting:** Lake plains  
**Position on the landform:** Swales  
**Slope range:** 0 to 2 percent  
**Texture of the surface layer:** Silt loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Poorly drained  
**Parent material:** Glaciolacustrine sediments  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** 0.5 foot (April, May)  
**Wet soil moisture status is lowest (depth, months):** 2.5 feet (February, August)  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 8.9 inches  
**Content of organic matter in the upper 10 inches:** 5 percent  
**Typical profile:**  
- Ap,A—0 to 16 inches; silt loam  
- Btg—16 to 32 inches; silty clay  
- Cg—32 to 80 inches; silty clay loam

**D12C2—Bygland silt loam, MAP >25, 6 to 12 percent slopes, eroded**  
**Component Description**  
**Bygland, MAP >25, and similar soils**  
**Extent:** 65 to 90 percent of the unit  
**Geomorphic setting:** Hills on lake plains  
**Position on the landform:** Backslopes, summits, and shoulders
Slope range: 6 to 12 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciolacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 3 feet (April)
Wet soil moisture status is lowest (depth, months):
   More than 6.7 feet (January, February, March, June, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 0.9 percent
Typical profile:
   Ap—0 to 7 inches; silt loam
   Bt—7 to 20 inches; silty clay
   BC—20 to 26 inches; silt loam
   C—26 to 80 inches; stratified silt loam to silty clay loam

Bygland, sandy substratum

Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on lake plains
Position on the landform: Foothills and backslopes
Slope range: 6 to 10 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciolacustrine sediments over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 2.3 feet (April)
Wet soil moisture status is lowest (depth, months):
   More than 6.7 feet (January, February, July, August, September, December)
Ponding: None
Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
   Ap,A—0 to 14 inches; silt loam
   Btg—16 to 32 inches; silty clay
   Cg—32 to 80 inches; silty clay loam

Depressional soil

Extent: 0 to 10 percent of the unit
Geomorphic setting: Lake plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Glaciolacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 5 percent

Lindaas

Extent: 0 to 15 percent of the unit
Geomorphic setting: Lake plains
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Glaciolacustrine sediments
 Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
   Ap,A—0 to 16 inches; silt loam
   Btg—16 to 32 inches; silty clay
   Cg—32 to 80 inches; silty clay loam

2C—63 to 80 inches; stratified very gravelly coarse sand to loamy sand
Typical profile:
Ap,A—0 to 23 inches; silt loam
Btg—23 to 30 inches; silty clay
Cg—30 to 80 inches; silty clay loam

D13A—Langola loamy fine sand, terrace, 0 to 2 percent slopes

Component Description
Langola, terrace, and similar soils
Extent: 75 to 100 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 5 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 4.4 inches
Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
Ap,AB—0 to 16 inches; loamy sand
Bw—16 to 30 inches; coarse sand
C—30 to 80 inches; coarse sand

Hubbard
Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap,AB—0 to 20 inches; loamy sand
Bw—20 to 32 inches; loamy sand
BC,C—32 to 80 inches; sand

D13B—Langola loamy fine sand, terrace, 2 to 6 percent slopes

Component Description
Langola, terrace, and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Shoulders, summits, and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months):
  2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 5 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 5.8 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
- Ap,AB—0 to 15 inches; loamy fine sand
- Bw—15 to 31 inches; loamy sand
- 2Bt—31 to 39 inches; sandy loam
- 2BC—39 to 43 inches; sandy loam
- 2Cd—43 to 60 inches; sandy loam

Hubbard
Extent: 5 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.9 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
- Ap,A—0 to 18 inches; loamy sand
- Bw—18 to 23 inches; loamy sand
- BC,C—23 to 80 inches; sand

Duelm
Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 75 percent
Typical profile:
- Oap—0 to 10 inches; muck
- Oa2,Oa5—10 to 60 inches; muck

Seelyeville-Markey complex, depressional, 0 to 1 percent slopes

Component Description
Seelyeville, drained, and similar soils
Extent: 50 to 100 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 75 percent
Typical profile:
- Oa—0 to 10 inches; muck
- Oa2,Oa5—10 to 60 inches; muck

Markey, drained, and similar soils
Extent: 15 to 30 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 13.1 inches
Content of organic matter in the upper 10 inches: 75 percent
Typical profile:
   Oap,Oa2,Oa3—0 to 28 inches; muck
   A—28 to 32 inches; loamy sand
   Cg—32 to 80 inches; sand

Mineral soil, drained
Extent: 10 to 30 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 75 percent
Typical profile:
   Oa1—0 to 15 inches; muck
   Oa2,Oa3—15 to 80 inches; muck

Markey, ponded, and similar soils
Extent: 0 to 100 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over outwash
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 12.8 inches
Content of organic matter in the upper 10 inches: 75 percent
Typical profile:
   Oa—0 to 27 inches; muck
   A—27 to 32 inches; loamy sand
   Cg—32 to 80 inches; sand

Mineral soil, ponded
Extent: 0 to 20 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions

D16A—Seelyeville and Markey soils, ponded, 0 to 1 percent slopes
Component Description
Seelyeville, ponded, and similar soils
Extent: 0 to 100 percent of the unit
Slope range: 0 to 1 percent  
Texture of the surface layer: Sandy loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Very poorly drained  
Parent material: Outwash  
Flooding: None  
Wet soil moisture status: At the surface all year  
Ponding is shallowest (depth, months): 0.5 foot (August)  
Ponding is deepest (depth, months): 3 feet (March, April, May)  
Available water capacity to a depth of 60 inches: 4.7 inches  
Content of organic matter in the upper 10 inches: 6 percent  
Typical profile:  
A—0 to 14 inches; sandy loam  
AB,Bg—14 to 34 inches; loamy sand  
Cg—34 to 80 inches; coarse sand

D17A—Duelm loamy sand, 0 to 2 percent slopes

Component Description
Duelm and similar soils
Extent: 85 to 100 percent of the unit  
Geomorphic setting: Stream terraces  
Position on the landform: Flats and slight rises  
Slope range: 0 to 2 percent  
Texture of the surface layer: Loamy sand  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Moderately well drained  
Parent material: Outwash  
Flooding: None  
Wet soil moisture status is highest (depth, months): 2.5 feet (April, May)  
Wet soil moisture status is lowest (depth, months): 4 feet (February, August, September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 4.4 inches  
Content of organic matter in the upper 10 inches: 3 percent  
Typical profile:  
Ap,A—0 to 18 inches; loamy sand  
Bw—18 to 23 inches; loamy sand  
BC,C—23 to 80 inches; sand

Hubbard
Extent: 0 to 5 percent of the unit  
Geomorphic setting: Stream terraces  
Position on the landform: Slight rises  
Slope range: 2 to 4 percent  
Texture of the surface layer: Loamy sand  
Depth to restrictive feature: More than 60 inches  
Drainage class: Excessively drained  
Parent material: Outwash  
Flooding: None  
Depth to wet soil moisture status: More than 6.7 feet all year  
Ponding: None  
Available water capacity to a depth of 60 inches: 3.9 inches  
Content of organic matter in the upper 10 inches: 3 percent  
Typical profile:  
Ap,A—0 to 18 inches; loamy sand  
Bw—18 to 30 inches; coarse sand  
BC,C—23 to 80 inches; sand

D18B—Braham loamy fine sand, terrace, 2 to 5 percent slopes

Component Description
Braham, terrace, and similar soils
Extent: 80 to 100 percent of the unit  
Geomorphic setting: Hills on stream terraces  
Position on the landform: Summits, shoulders, and backslopes
Slope range: 2 to 5 percent  
Texture of the surface layer: Loamy fine sand  
Depth to restrictive feature: More than 60 inches  
Drainage class: Moderately well drained  
Parent material: Outwash over till  
Flooding: None  
Wet soil moisture status is highest (depth, months): 2.5 feet (April)  
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 8.4 inches  
Content of organic matter in the upper 10 inches: 1.7 percent  
Typical profile:  
Ap—0 to 8 inches; loamy fine sand  
E—8 to 24 inches; loamy fine sand  
2Bt—24 to 42 inches; sandy clay loam  
2Bk—42 to 60 inches; loam  

Duelm  
Extent: 0 to 20 percent of the unit  
Geomorphic setting: Stream terraces  
Position on the landform: Flats and slight rises  
Slope range: 0 to 2 percent  
Texture of the surface layer: Loamy sand  
Depth to restrictive feature: More than 60 inches  
Drainage class: Moderately well drained  
Parent material: Outwash  
Flooding: None  
Wet soil moisture status is highest (depth, months): 2.5 feet (April, May)  
Wet soil moisture status is lowest (depth, months): 4 feet (February, August, September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 4.4 inches  
Content of organic matter in the upper 10 inches: 4 percent  
Typical profile:  
Ap,AB—0 to 16 inches; loamy sand  
Bw—16 to 30 inches; coarse sand  
C—30 to 80 inches; coarse sand  

Winterfield, frequently flooded, and similar soils  
Extent: 20 to 40 percent of the unit  
Geomorphic setting: Flood plains  
Position on the landform: Slight rises  
Slope range: 0 to 2 percent  
Texture of the surface layer: Loamy fine sand  
Depth to restrictive feature: More than 60 inches  
Drainage class: Somewhat poorly drained  
Parent material: Alluvium  
Flooding does not occur (months): January, February, September, October, November, December  
Flooding is most likely (frequency, months): Frequent (March, April)  
Wet soil moisture status is highest (depth, months): 1.5 feet (April)  
Wet soil moisture status is lowest (depth, months): 4.5 feet (September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 4.7 inches  
Content of organic matter in the upper 10 inches: 2.4 percent  
Typical profile:  
A—0 to 7 inches; fine sandy loam  
Cg—7 to 28 inches; sandy loam  
2Cg—28 to 80 inches; sand  

D19A—Fordum-Winterfield complex, 0 to 2 percent slopes, frequently flooded  
Component Description  
Fordum, frequently flooded, and similar soils  
Extent: 50 to 100 percent of the unit  
Geomorphic setting: Flood plains  
Position on the landform: Drainageways  
Slope range: 0 to 1 percent  
Texture of the surface layer: Fine sandy loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Very poorly drained  
Parent material: Alluvium  
Flooding does not occur (months): January, February, September, October, November, December  
Flooding is most likely (frequency, months): Frequent (March, April, May, June)  
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)  
Wet soil moisture status is lowest (depth, months): 1.8 feet (February)  
Ponding: None  
Available water capacity to a depth of 60 inches: 6.6 inches  
Content of organic matter in the upper 10 inches: 5.2 percent  
Typical profile:  
A—0 to 7 inches; fine sandy loam  
Cg—7 to 28 inches; sandy loam  
2Cg—28 to 80 inches; sand  

Fordum, occasionally flooded  
Extent: 0 to 20 percent of the unit
Geomorphic setting: Flood plains  
Position on the landform: Flats  
Slope range: 0 to 2 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Poorly drained  
Parent material: Alluvium  
Flooding does not occur (months): January, February, September, October, November, December  
Flooding is most likely (frequency, months): Occasional (March, April, May, June, July, August)  
Wet soil moisture status is highest (depth, months): 0.5 foot (April)  
Wet soil moisture status is lowest (depth, months): 2.3 feet (September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 8.7 inches  
Content of organic matter in the upper 10 inches: 7 percent  
Typical profile:  
Ap—0 to 9 inches; loam  
Cg—9 to 38 inches; loam  
2Cg—38 to 80 inches; stratified sand to silt loam

D20A—Isan sandy loam, 0 to 2 percent slopes

Component Description

Isan and similar soils

Extent: 80 to 100 percent of the unit  
Geomorphic setting: Stream terraces  
Position on the landform: Swales  
Slope range: 0 to 2 percent  
Texture of the surface layer: Sandy loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Poorly drained  
Parent material: Outwash  
Flooding: None  
Wet soil moisture status is highest (depth, months): 0.5 foot (April)  
Wet soil moisture status is lowest (depth, months): 2 feet (August, September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 4.7 inches  
Content of organic matter in the upper 10 inches: 6.5 percent  
Typical profile:  
A—0 to 14 inches; sandy loam  
AB,Bg—14 to 34 inches; loamy sand  
Cg—34 to 80 inches; coarse sand

Isan, depressional

Extent: 5 to 15 percent of the unit  
Geomorphic setting: Stream terraces  
Position on the landform: Depressions  
Slope range: 0 to 1 percent  
Texture of the surface layer: Sandy loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Very poorly drained  
Parent material: Outwash  
Flooding: None  
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)  
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)  
Ponding does not occur (months): January, February, July, August, September, October, November, December  
Ponding is deepest (depth, months): 1 foot (March, April, May)  
Available water capacity to a depth of 60 inches: 4.7 inches  
Content of organic matter in the upper 10 inches: 6.5 percent  
Typical profile:  
A—0 to 14 inches; sandy loam  
AB,Bg—14 to 34 inches; loamy sand  
Cg—34 to 80 inches; coarse sand

Duelm

Extent: 0 to 10 percent of the unit  
Geomorphic setting: Stream terraces  
Position on the landform: Flats and slight rises  
Slope range: 0 to 2 percent  
Texture of the surface layer: Loamy sand  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Moderately well drained  
Parent material: Outwash  
Flooding: None  
Wet soil moisture status is highest (depth, months): 2.5 feet (April, May)  
Wet soil moisture status is lowest (depth, months): 4 feet (February, August, September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 4.4 inches  
Content of organic matter in the upper 10 inches: 4 percent  
Typical profile:  
A—0 to 16 inches; loamy sand  
Ap,AB—0 to 16 inches; loamy sand
Bw—16 to 30 inches; coarse sand  
C—30 to 80 inches; coarse sand

**D21A—Isan sandy loam, depressional, 0 to 1 percent slopes**

*Component Description*

**Isan, depressional, and similar soils**

*Extent: 80 to 100 percent of the unit*
*Geomorphic setting: Stream terraces*
*Position on the landform: Depressions*
*Slope range: 0 to 1 percent*
*Texture of the surface layer: Sandy loam*
*Depth to restrictive feature: Very deep (more than 60 inches)*
*Drainage class: Very poorly drained*
*Parent material: Outwash*
*Flooding: None*
*Wet soil moisture status is highest (depth, months): At the surface (April, May, June)*
*Wet soil moisture status is lowest (depth, months): 1.5 feet (February)*
*Ponding does not occur (months): January, February, July, August, September, October, November, December*
*Ponding is deepest (depth, months): 1 foot (March, April, May)*
*Available water capacity to a depth of 60 inches: 4.7 inches*
*Content of organic matter in the upper 10 inches: 6.5 percent*

*Typical profile:*
  A—0 to 14 inches; sandy loam  
  AB,Bg—14 to 34 inches; loamy sand  
  Cg—34 to 80 inches; coarse sand

**Isan**

*Extent: 10 to 20 percent of the unit*
*Geomorphic setting: Stream terraces*
*Position on the landform: Rims of depressions*
*Slope range: 0 to 2 percent*
*Texture of the surface layer: Sandy loam*
*Depth to restrictive feature: Very deep (more than 60 inches)*
*Drainage class: Poorly drained*
*Parent material: Outwash*
*Flooding: None*
*Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)*
*Wet soil moisture status is lowest (depth, months): 2 feet (August, September)*
*Ponding: None*

**Available water capacity to a depth of 60 inches: 4.7 inches**
**Content of organic matter in the upper 10 inches: 6.5 percent**

**Typical profile:**
  A—0 to 14 inches; sandy loam  
  AB,Bg—14 to 34 inches; loamy sand  
  Cg—34 to 80 inches; coarse sand

**D23A—Southhaven loam, 0 to 2 percent slopes**

*Component Description*

**Southaven and similar soils**

*Extent: 80 to 100 percent of the unit*
*Geomorphic setting: Stream terraces and outwash plains*
*Position on the landform: Swales*
*Slope range: 0 to 2 percent*
*Texture of the surface layer: Loam*
*Depth to restrictive feature: Very deep (more than 60 inches)*
*Drainage class: Well drained*
*Parent material: Colluvium over outwash*
*Flooding: None*
*Wet soil moisture status is highest (depth, months): 3.5 feet (April, May)*
*Wet soil moisture status is lowest (depth, months): More than 6.7 feet (August, September, October)*
*Ponding: None*
*Available water capacity to a depth of 60 inches: 11 inches*
*Content of organic matter in the upper 10 inches: 6 percent*

*Typical profile:*
  Ap,A3—0 to 48 inches; loam  
  Bw—48 to 62 inches; loam  
  2Bw—62 to 66 inches; loamy sand  
  2C—66 to 80 inches; sand

**Dorset**

*Extent: 0 to 10 percent of the unit*
*Geomorphic setting: Stream terraces and outwash plains*
*Position on the landform: Slight rises*
*Slope range: 2 to 4 percent*
*Texture of the surface layer: Sandy loam*
*Depth to restrictive feature: Very deep (more than 60 inches)*
*Drainage class: Well drained*
*Parent material: Outwash*
*Flooding: None*
**Mosford**

*Extent:* 0 to 10 percent of the unit  
*Geomorphic setting:* Outwash plains and stream terraces  
*Position on the landform:* Swales  
*Slope range:* 0 to 2 percent  
*Texture of the surface layer:* Sandy loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Somewhat excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 5.1 inches  
*Content of organic matter in the upper 10 inches:* 3 percent  

**Typical profile:**  
Ap,A—0 to 11 inches; sandy loam  
Bt—11 to 19 inches; sandy loam  
2BC—19 to 32 inches; gravelly loamy sand  
2C—32 to 80 inches; gravelly coarse sand  

**Elkriver, occasionally flooded**

*Extent:* 5 to 20 percent of the unit  
*Geomorphic setting:* Flood plains  
*Position on the landform:* Flats  
*Slope range:* 0 to 2 percent  
*Texture of the surface layer:* Fine sandy loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Somewhat poorly drained  
*Parent material:* Alluvium  
*Flooding does not occur (months):* January, February, September, October, November, December  
*Flooding is most likely (frequency, months):* Occasional (March, April, May, June, July, August)  
*Wet soil moisture status is highest (depth, months):* 1.5 feet (April)  
*Wet soil moisture status is lowest (depth, months):* 4.5 feet (February)  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 7.4 inches  
*Content of organic matter in the upper 10 inches:* 4.5 percent  

**Typical profile:**  
Ap—0 to 10 inches; fine sandy loam  
A1,A3—10 to 26 inches; fine sandy loam  
Bw—26 to 32 inches; very fine sandy loam  
2C—32 to 80 inches; sand  

**D24A—Sedgeville loam, 0 to 2 percent slopes, occasionally flooded**

*Component Description*

*Sedgeville, occasionally flooded, and similar soils*

*Extent:* 80 to 100 percent of the unit  
*Geomorphic setting:* Flood plains  
*Position on the landform:* Swales  
*Slope range:* 0 to 2 percent  
*Texture of the surface layer:* Loam  
*Depth to restrictive feature:* More than 60 inches  
*Drainage class:* Poorly drained  
*Parent material:* Alluvium  
*Flooding does not occur (months):* January, February, September, October, November, December  
*Flooding is most likely (frequency, months):* Occasional (March, April, May, June, July, August)  
*Wet soil moisture status is highest (depth, months):* 0.5 foot (April)  
*Wet soil moisture status is lowest (depth, months):* 3.3 feet (February, August)  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 9.4 inches  
*Content of organic matter in the upper 10 inches:* 7 percent  

**Typical profile:**  
Ap,A—0 to 15 inches; loam  
Bg—15 to 45 inches; loam  
2Cg—45 to 80 inches; sand  

**D25A—Soderville loamy fine sand, terrace, 0 to 3 percent slopes**

*Component Description*

*Soderville, terrace, and similar soils*

*Extent:* 80 to 100 percent of the unit  
*Geomorphic setting:* Stream terraces
Position on the landform: Slight swales
Slope range: 0 to 3 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 2 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 5 feet (January, February, March, June, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 5 inches
Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:
- Ap—0 to 9 inches; loamy fine sand
- E—9 to 24 inches; loamy fine sand
- Bt—24 to 31 inches; stratified loamy fine sand to fine sandy loam
- C—31 to 60 inches; sand

Forada

Extent: 0 to 20 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 5 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 7.9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
- Ap—0 to 16 inches; loamy sand
- Bw—16 to 31 inches; loamy sand
- 2Bw—31 to 40 inches; stratified loamy sand to sandy clay loam
- 2Bk—40 to 60 inches; stratified loamy sand to sandy clay loam

Hubbard

Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Slight rises
Slope range: 0 to 3 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4 inches

D26A—Foldahl loamy sand, MAP >25, 0 to 3 percent slopes

Component Description

Foldahl, MAP >25, and similar soils

Extent: 85 to 100 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Slight rises
Slope range: 0 to 3 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over stratified sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 5 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 7.9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
- Ap, A—0 to 16 inches; loamy sand
- Bw—16 to 31 inches; loamy sand
- 2Bw—31 to 40 inches; stratified loamy sand to sandy clay loam
- 2Bk—40 to 60 inches; stratified loamy sand to sandy clay loam
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
- Ap, AB—0 to 20 inches; loamy sand
- Bw—20 to 32 inches; loamy sand
- BC, C—32 to 80 inches; sand

Isan

Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2 feet (August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches

Dorset

Extent: 5 to 20 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches

D27A—Dorset sandy loam, loamy substratum, 0 to 2 percent slopes

Component Description

Dorset, loamy substratum, and similar soils

Extent: 70 to 100 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash over till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6.2 inches

Southhaven

Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 3.5 feet (April, May)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (August, September, October)
Ponding: None
Available water capacity to a depth of 60 inches: 11 inches
Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
- Ap, A—0 to 12 inches; sandy loam
- Bt—12 to 20 inches; coarse sandy loam
- 2BC—20 to 60 inches; gravelly coarse sand
- 2C—27 to 60 inches; gravelly coarse sand

Available water capacity to a depth of 60 inches: 6.2 inches

Typical profile:
- Ap, A3—0 to 48 inches; loam
Bw—48 to 62 inches; loam
2Bw—62 to 66 inches; loamy sand
2C—66 to 80 inches; gravelly sand

D28B—Urban land-Bygland, MAP >25, complex, 1 to 6 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Lake plains
Slope range: 1 to 6 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Bygland, MAP >25, and similar soils
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on lake plains
Position on the landform: Backslopes, summits, and shoulders
Slope range: 1 to 6 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciolacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 2.3 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September, December)
Ponding: None
Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap,A—0 to 14 inches; silt loam
Bt—14 to 26 inches; silty clay
BC—26 to 38 inches; silty clay loam
C—38 to 63 inches; stratified silt loam to silty clay loam
2C—63 to 80 inches; stratified very gravelly coarse sand to loamy sand

D29B—Urban land-Hubbard, bedrock substratum, complex, 0 to 8 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Stream terraces
Slope range: 0 to 8 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Hubbard, bedrock substratum, and similar soils
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Shoulders and summits
Slope range: 0 to 8 percent
Texture of the surface layer: Loamy sand
**Depth to restrictive feature:** 40 to 80 inches to bedrock (lithic)
**Drainage class:** Excessively drained
**Parent material:** Outwash over limestone bedrock
**Flooding:** None
**Depth to wet soil moisture status:** More than 6.7 feet all year
**Ponding:** None
**Available water capacity to a depth of 60 inches:** 3.9 inches
**Content of organic matter in the upper 10 inches:** 3 percent
**Typical profile:**
- Ap,A—0 to 18 inches; loamy sand
- Bw—18 to 23 inches; loamy sand
- BC,C—23 to 60 inches; sand
- 2R—60 to 80 inches; unweathered bedrock

**Hubbard**
**Extent:** 0 to 10 percent of the unit
**Geomorphic setting:** Hills on stream terraces
**Position on the landform:** Backslopes
**Slope range:** 0 to 8 percent
**Texture of the surface layer:** Loamy sand
**Depth to restrictive feature:** Very deep (more than 60 inches)
**Drainage class:** Excessively drained
**Parent material:** Outwash
**Flooding:** None
**Available water capacity to a depth of 60 inches:** 3.9 inches
**Content of organic matter in the upper 10 inches:** 3 percent
**Typical profile:**
- Ap,A—0 to 18 inches; loamy sand
- Bw—18 to 23 inches; loamy sand
- BC,C—23 to 60 inches; sand
- 2R—60 to 80 inches; unweathered bedrock

**Mosford**
**Extent:** 0 to 5 percent of the unit
**Geomorphic setting:** Stream terraces
**Position on the landform:** Swales
**Slope range:** 0 to 4 percent
**Texture of the surface layer:** Sandy loam
**Depth to restrictive feature:** Very deep (more than 60 inches)
**Drainage class:** Somewhat excessively drained
**Parent material:** Outwash
**Flooding:** None
**Depth to wet soil moisture status:** More than 6.7 feet all year
**Available water capacity to a depth of 60 inches:** 5.1 inches
**Content of organic matter in the upper 10 inches:** 3 percent
**Typical profile:**
- Ap,A—0 to 13 inches; sandy loam
- Bw—13 to 16 inches; coarse sandy loam
- 2Bw—16 to 35 inches; coarse sand
- 2C—35 to 80 inches; sand

**D30A—Seelyeville and Markey soils, depressional, 0 to 1 percent slopes**

**Component Description**

**Seelyeville, surface drained, and similar soils**
**Extent:** 0 to 100 percent of the unit
**Geomorphic setting:** Stream terraces and outwash plains
**Position on the landform:** Depressions
**Slope range:** 0 to 1 percent
**Texture of the surface layer:** Muck
**Depth to restrictive feature:** Very deep (more than 60 inches)
**Drainage class:** Very poorly drained
**Parent material:** Organic material
**Flooding:** None
**Wet soil moisture status is highest (depth, months):** At the surface (April, May, June)
**Wet soil moisture status is lowest (depth, months):** 1.5 feet (February)
**Ponding does not occur (months):** January, February, July, August, September, October, November, December
**Ponding is deepest (depth, months):** 1 foot (March, April, May)
**Available water capacity to a depth of 60 inches:** 23.9 inches
**Content of organic matter in the upper 10 inches:** 75 percent
**Typical profile:**
- Oa1—0 to 10 inches; muck
- Oa2,Oa5—10 to 80 inches; muck

**Markey, surface drained, and similar soils**
**Extent:** 0 to 100 percent of the unit
**Geomorphic setting:** Stream terraces and outwash plains
**Position on the landform:** Depressions
**Slope range:** 0 to 1 percent
**Texture of the surface layer:** Muck
**Depth to restrictive feature:** Very deep (more than 60 inches)
**Hennepin County, Minnesota**

**Drainage class:** Very poorly drained  
**Parent material:** Organic material over outwash  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** At the surface (April, May, June)  
**Wet soil moisture status is lowest (depth, months):** 1.5 feet (February)  
**Ponding does not occur (months):** January, February, July, August, September, October, November, December  
**Ponding is deepest (depth, months):** 1 foot (March, April, May)  
**Available water capacity to a depth of 60 inches:** 15.8 inches  
**Content of organic matter in the upper 10 inches:** 75 percent  
**Typical profile:**  
- **Oa**—0 to 36 inches; muck  
- **A**—36 to 42 inches; loamy sand  
- **Cg**—42 to 80 inches; sand

**Mineral soil, surface drained**

**Extent:** 0 to 20 percent of the unit  
**Geomorphic setting:** Outwash plains and stream terraces  
**Position on the landform:** Depressions  
**Slope range:** 0 to 1 percent  
**Texture of the surface layer:** Sandy loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Very poorly drained  
**Parent material:** Outwash  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** At the surface (April, May, June)  
**Wet soil moisture status is lowest (depth, months):** 1.5 feet (February)  
**Ponding does not occur (months):** January, February, July, August, September, October, November, December  
**Ponding is deepest (depth, months):** 1 foot (March, April, May)  
**Available water capacity to a depth of 60 inches:** 4.7 inches  
**Content of organic matter in the upper 10 inches:** 4 percent  
**Typical profile:**  
- **Ap,AB**—0 to 16 inches; loamy sand  
- **Bw**—16 to 30 inches; coarse sand  
- **C**—30 to 80 inches; coarse sand

**D31A—Urban land-Duelm complex, 0 to 2 percent slopes**

**Component Description**

**Urban land**

**Extent:** 35 to 80 percent of the unit  
**Geomorphic setting:** Stream terraces  
**Slope range:** 0 to 2 percent  
**Flooding:** None  
**Ponding:** None  
**General description:** Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

**Duelm and similar soils**

**Extent:** 0 to 20 percent of the unit  
**Geomorphic setting:** Stream terraces  
**Position on the landform:** Flats and slight rises  
**Slope range:** 0 to 2 percent  
**Texture of the surface layer:** Loamy sand  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Moderately well drained  
**Parent material:** Outwash  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** 2.5 feet (April, May)  
**Wet soil moisture status is lowest (depth, months):** 4 feet (February, August, September)  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 4.4 inches  
**Content of organic matter in the upper 10 inches:** 4 percent  
**Typical profile:**  
- **Ap,AB**—0 to 16 inches; loamy sand  
- **Bw**—16 to 30 inches; coarse sand  
- **C**—30 to 80 inches; coarse sand

**Hubbard**

**Extent:** 0 to 5 percent of the unit  
**Geomorphic setting:** Stream terraces  
**Position on the landform:** Slight rises  
**Slope range:** 2 to 4 percent  
**Texture of the surface layer:** Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
  Ap,A—0 to 18 inches; loamy sand
  Bw—18 to 23 inches; loamy sand
  BC,C—23 to 80 inches; sand

Isan
Extent: 0 to 5 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2 feet (August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 6.5 percent

Typical profile:
  A—0 to 14 inches; sandy loam
  AB,Bg—14 to 34 inches; loamy sand
  Cg—34 to 80 inches; coarse sand

D33B—Urban land-Dorset complex, 0 to 8 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Stream terraces
Slope range: 0 to 8 percent
Flooding: None
Ponding: None

General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Dorset and similar soils
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Summits, shoulders, and backslopes
Slope range: 0 to 8 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
  Ap,A—0 to 12 inches; sandy loam
  Bt—12 to 20 inches; coarse sandy loam
  2BC—20 to 27 inches; gravelly coarse sand
  2C—27 to 60 inches; gravelly coarse sand

Verndale, acid substratum
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Footslopes and backslopes
Slope range: 0 to 8 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
  Ap—0 to 10 inches; sandy loam
  Bt—10 to 19 inches; sandy loam
Hubbard
Extent: 0 to 5 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Shoulders
Slope range: 8 to 18 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 19 inches; sandy loam
2Bw—19 to 28 inches; sand
2C—28 to 80 inches; sand

D33C—Urban land-Dorset complex, 8 to 18 percent slopes

Component Description
Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Stream terraces
Slope range: 8 to 18 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Dorset and similar soils
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Shoulders, summits, and backslopes
Slope range: 8 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap,AB—0 to 20 inches; loamy sand
Bw—20 to 32 inches; loamy sand
BC,C—32 to 80 inches; sand

Verndale, acid substratum
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Backslopes and footslopes
Slope range: 8 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.8 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap,A—0 to 11 inches; sandy loam
Bt—11 to 19 inches; sandy loam
2BC—19 to 32 inches; gravelly loamy sand
2C—32 to 80 inches; gravelly coarse sand

Hubbard
Extent: 0 to 5 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Shoulders
Slope range: 8 to 18 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None

Available water capacity to a depth of 60 inches: 3.6 inches
Content of organic matter in the upper 10 inches: 2 percent

Typical profile:
Ap,AB—0 to 12 inches; loamy sand
Bw—12 to 33 inches; coarse sand
C—33 to 80 inches; coarse sand

D34B—Urban land-Hubbard complex, 0 to 8 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Stream terraces
Slope range: 0 to 8 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Hubbard and similar soils
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Shoulders, backslopes, and summits
Slope range: 0 to 8 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap,A—0 to 18 inches; loamy sand
Bw—18 to 23 inches; coarse sand
BC,C—23 to 80 inches; sand

D35A—Elkriver-Fordum complex, 0 to 2 percent slopes, occasionally flooded

Component Description

Elkriver, occasionally flooded, and similar soils
Extent: 70 to 100 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 7.4 inches
Content of organic matter in the upper 10 inches: 4.5 percent

Typical profile:
Ap—0 to 10 inches; fine sandy loam
A1,A3—10 to 26 inches; fine sandy loam

Mosford
Extent: 0 to 5 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Swales
Slope range: 0 to 4 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.1 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap,A—0 to 13 inches; sandy loam
Bw—13 to 16 inches; coarse sandy loam
2Bw—16 to 35 inches; coarse sand
2C—35 to 80 inches; sand
Bw—26 to 32 inches; very fine sandy loam
2C—32 to 80 inches; sand

Fordum, occasionally flooded, and similar soils

Extent: 5 to 25 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Drainageways
Slope range: 0 to 1 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (September)
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 2.4 percent

D37F—Dorset, bedrock substratum-Rock outcrop complex, 25 to 65 percent slopes

Component Description

Dorset, bedrock substratum, and similar soils

Extent: 65 to 95 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Summits
Slope range: 25 to 65 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: 40 to 80 inches to bedrock (lithic)
Drainage class: Well drained
Parent material: Outwash over limestone bedrock
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.5 inches
Content of organic matter in the upper 10 inches: 3 percent

Winterfield, occasionally flooded

Extent: 0 to 10 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (September)
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 2.4 percent

Typical profile:
  A—0 to 8 inches; loamy fine sand
  C1,C2—8 to 20 inches; sand
  C3,C5—20 to 80 inches; sand

Udipsamments

Extent: 0 to 15 percent of the unit
Geomorphic setting: Flood plains
Slope range: 0 to 2 percent
Parent material: Fill material over alluvium
Flooding: None
Ponding: None
General description: Udipsamments consist of fill material. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Rock outcrop

Extent: 10 to 35 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Summits and shoulders
Slope range: 0 to 3 percent
Type of bedrock: Limestone

Hubbard, bedrock substratum
Extent: 0 to 15 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Backslopes
Slope range: 25 to 65 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: 40 to 80 inches to bedrock (lithic)
Drainage class: Excessively drained
Parent material: Outwash over limestone bedrock
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
A—0 to 18 inches; loamy sand
Bw—18 to 23 inches; loamy sand
BC,C—23 to 60 inches; sand
2R—60 to 80 inches; unweathered bedrock

D40A—Kratka loamy fine sand, thick solum, 0 to 2 percent slopes

Component Description

Kratka, thick solum, and similar soils
Extent: 75 to 90 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 feet (April, May)
Wet soil moisture status is lowest (depth, months): 2 feet (August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 7.9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap—0 to 10 inches; loamy fine sand
Bg—10 to 30 inches; fine sand
2Bg,2Cg—30 to 60 inches; clay loam

Duelm
Extent: 5 to 15 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Flats and slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April, May)
Wet soil moisture status is lowest (depth, months): 4 feet (February, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 4.4 inches
Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
Ap,AB—0 to 16 inches; loamy sand
Bw—16 to 30 inches; coarse sand
C—30 to 80 inches; coarse sand

Foldahl, MAP >25
Extent: 5 to 15 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Slight rises
Slope range: 0 to 3 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over stratified sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 7.9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap,A—0 to 16 inches; loamy sand
Bw—16 to 31 inches; loamy sand
2Bw—31 to 40 inches; stratified loamy sand to sandy clay loam
2Bk—40 to 60 inches; stratified loamy sand to sandy clay loam

D41C—Urban land-Waukon complex, 6 to 18 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Stream terraces
Slope range: 6 to 18 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Waukon and similar soils
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Backslopes, summits, and shoulders
Slope range: 6 to 18 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 9.9 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
   Ap—0 to 8 inches; loamy fine sand
   E,B,E,Bt—8 to 43 inches; loam
   2Bt—43 to 80 inches; loam

Braham
Extent: 0 to 5 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Shoulders, backslopes, and summits
Slope range: 2 to 5 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
   More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
   Ap—0 to 8 inches; loamy fine sand
   E—8 to 24 inches; loamy fine sand
   2Bt—24 to 42 inches; sandy clay loam
   2Bk—42 to 60 inches; loam

D43A—Gonvick loam, terrace, 1 to 3 percent slopes

Component Description

Gonvick, terrace, and similar soils
Extent: 75 to 95 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months):
   More than 5 feet (February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 3.5 percent
Typical profile:
   Ap,A—0 to 12 inches; loam
   Bt—12 to 30 inches; clay loam
   Bk,C—30 to 60 inches; loam
Braham

Extent: 5 to 25 percent of the unit
Geomorphic setting: Stream terraces
Position on the landform: Slight rises
Slope range: 2 to 4 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap—0 to 8 inches; loamy fine sand
E—8 to 24 inches; loamy fine sand
2Bt—24 to 42 inches; sandy clay loam
2Bk—42 to 60 inches; loam

GP—Pits, gravel-Udipsamments complex

Component Description

Pits, gravel

Extent: 50 to 100 percent of the unit
Geomorphic setting: Moraines, outwash plains, and stream terraces
Parent material: Sandy and gravelly outwash
General description: Gravel pits are areas that have been mined for gravel or sand. Specific areas are actively being mined or are abandoned pits. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Udipsamments

Extent: 15 to 30 percent of the unit
Geomorphic setting: Stream terraces, outwash plains, and moraines
Parent material: Outwash
General description: Udipsamments are areas of soil that support plant growth. They consist of areas of the pits that have been reclaimed or abandoned. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

L2B—Malardi-Hawick complex, 1 to 6 percent slopes

Component Description

Malardi and similar soils

Extent: 60 to 80 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 1 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 15 inches; sandy loam
2Bt—15 to 29 inches; loamy coarse sand
2C—29 to 80 inches; gravelly sand

Hawick and similar soils

Extent: 10 to 30 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Shoulders
Slope range: 3 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.2 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
Ap—0 to 7 inches; sandy loam
Bw—7 to 11 inches; gravelly loamy coarse sand
C—11 to 80 inches; gravelly coarse sand

Rasset
Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 1 to 3 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6.1 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap—0 to 15 inches; sandy loam
Bt—15 to 28 inches; sandy loam
2BC—28 to 36 inches; loamy sand
2C—36 to 80 inches; sand

Eden Prairie
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 1 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 15 inches; sandy loam
2Bt—15 to 29 inches; loamy coarse sand
2C—29 to 80 inches; gravelly sand

L2C—Malardi-Hawick complex, 6 to 12 percent slopes
Component Description

Malardi and similar soils
Extent: 60 to 90 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 15 inches; sandy loam
2Bt—15 to 29 inches; loamy coarse sand
2C—29 to 80 inches; gravelly sand

Hawick and similar soils
Extent: 10 to 30 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Shoulders
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.2 inches
Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:
Ap—0 to 7 inches; sandy loam
Bw—7 to 11 inches; gravelly loamy coarse sand
C—11 to 80 inches; gravelly coarse sand
Tomall

Extent: 5 to 15 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 4 feet (April, May)
Wet soil moisture status is lowest (depth, months):
  More than 6.7 feet (January, February, March, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
  Ap, A, AB—0 to 33 inches; loam
  Bw—33 to 42 inches; sandy loam
  2Bw—42 to 47 inches; loamy coarse sand
  2C—47 to 80 inches; gravelly loamy coarse sand

Crowfork

Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Summits and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
  Ap—0 to 9 inches; sandy loam
  Bt—9 to 14 inches; sandy loam
  2Bt—14 to 21 inches; gravelly loamy coarse sand
  2C—21 to 80 inches; gravelly coarse sand

L2D—Malardi-Hawick complex, 12 to 18 percent slopes

Component Description

Malardi and similar soils

Extent: 50 to 90 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Summits and backslopes
Slope range: 12 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.8 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
  Ap—0 to 9 inches; sandy loam
  Bt—9 to 14 inches; sandy loam
  2Bt—14 to 21 inches; gravelly loamy coarse sand
  2C—21 to 80 inches; gravelly coarse sand

Hawick and similar soils

Extent: 10 to 40 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Shoulders
Slope range: 12 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.2 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
  Ap—0 to 7 inches; sandy loam
  Bw—7 to 11 inches; gravelly loamy coarse sand
  C—11 to 80 inches; gravelly coarse sand
**Tomall**

*Extent:* 5 to 15 percent of the unit  
*Geomorphologic setting:* Outwash plains and stream terraces  
*Position on the landform:* Swales  
*Slope range:* 0 to 3 percent  
*Texture of the surface layer:* Loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Well drained  
*Parent material:* Colluvium over outwash  
*Flooding:* None  
*Content of organic matter in the upper 10 inches:* 6 percent  
*Typical profile:*  
\[\text{Ap, AB—0 to 33 inches; loam} \]
\[\text{Bw—33 to 42 inches; sandy loam} \]
\[\text{2Bw—42 to 47 inches; loamy coarse sand} \]
\[\text{2C—47 to 80 inches; gravelly loamy coarse sand} \]

**Crowfork**

*Extent:* 0 to 10 percent of the unit  
*Geomorphologic setting:* Hills on outwash plains; hills on stream terraces  
*Position on the landform:* Summits and backslopes  
*Slope range:* 12 to 18 percent  
*Texture of the surface layer:* Loamy sand  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Content of organic matter in the upper 10 inches:* 2 percent  
*Typical profile:*  
\[\text{A—0 to 11 inches; sandy loam} \]
\[\text{Bw—11 to 20 inches; loamy fine sand} \]
\[\text{E&Bt—20 to 76 inches; loamy sand} \]
\[\text{C—76 to 80 inches; sand} \]

**L2E—Malardi-Hawick complex, 18 to 35 percent slopes**

*Component Description*

**Malardi and similar soils**

*Extent:* 50 to 90 percent of the unit  
*Geomorphologic setting:* Hills on outwash plains; hills on stream terraces  
*Position on the landform:* Summits and backslopes  
*Slope range:* 18 to 35 percent  
*Texture of the surface layer:* Sandy loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Somewhat excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 3.8 inches  
*Content of organic matter in the upper 10 inches:* 4.6 percent  
*Typical profile:*  
\[\text{A—0 to 9 inches; sandy loam} \]
\[\text{Bt—9 to 14 inches; sandy loam} \]
\[\text{2Bt—14 to 21 inches; gravelly loamy coarse sand} \]
\[\text{2C—21 to 80 inches; gravelly sand} \]

**Hawick and similar soils**

*Extent:* 10 to 40 percent of the unit  
*Geomorphologic setting:* Hills on outwash plains; hills on stream terraces  
*Position on the landform:* Shoulders  
*Slope range:* 18 to 35 percent  
*Texture of the surface layer:* Sandy loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 3.2 inches  
*Content of organic matter in the upper 10 inches:* 1.9 percent  
*Typical profile:*  
\[\text{A—0 to 7 inches; sandy loam} \]
\[\text{Bw—7 to 11 inches; gravelly loamy coarse sand} \]
\[\text{C—11 to 80 inches; gravelly coarse sand} \]
Tomall

Extent: 5 to 25 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 4 feet (April, May)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, March, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
A,AB—0 to 33 inches; loam
Bw—33 to 42 inches; sandy loam
2Bw—42 to 47 inches; loamy coarse sand
2C—47 to 80 inches; gravelly loamy coarse sand

L3A—Rasset sandy loam, 0 to 2 percent slopes

Component Description

Rasset and similar soils

Extent: 80 to 100 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap,A—0 to 15 inches; sandy loam
Bt—15 to 28 inches; sandy loam
2BC—28 to 36 inches; loamy sand
2C—36 to 80 inches; sand

Malardi

Extent: 0 to 20 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 15 inches; sandy loam
2Bt—15 to 29 inches; loamy coarse sand
2C—29 to 80 inches; gravelly sand

Eden Prairie

Extent: 0 to 5 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 16 inches; sandy loam
Rasset and similar soils

Extent: 75 to 100 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Summits and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 15 inches; sandy loam
Bt—15 to 28 inches; sandy loam
2BC—28 to 36 inches; loamy sand
2C—36 to 80 inches; sand

Malardi

Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces
Position on the landform: Backslopes and summits
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 16 inches; sandy loam
2Bt—16 to 26 inches; loamy coarse sand
2C—29 to 80 inches; gravelly sand

L3B—Rasset sandy loam, 2 to 6 percent slopes

Component Description

Rasset and similar soils

Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 16 inches; sandy loam
2Bt—16 to 26 inches; loamy coarse sand
2C—29 to 80 inches; gravelly sand

L3C—Rasset sandy loam, 6 to 12 percent slopes

Component Description

Rasset and similar soils

Extent: 70 to 100 percent of the unit
Geomorphic setting: Hills on outwash plains
Position on the landform: Summits and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 6.1 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap,A—0 to 15 inches; sandy loam
Bt—15 to 28 inches; sandy loam
2BC—28 to 36 inches; loamy sand
2C—36 to 80 inches; sand

Malardi
Extent: 0 to 30 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Summits and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 15 inches; sandy loam
2Bt—15 to 29 inches; loamy coarse sand
2C—29 to 80 inches; gravelly sand

Tomall
Extent: 5 to 15 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 4 feet (April, May)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, March, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
Ap,A,AB—0 to 33 inches; loam
Bw—33 to 42 inches; sandy loam
2Bw—42 to 47 inches; loamy coarse sand
2C—47 to 80 inches; gravelly loamy coarse sand

Eden Prairie
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Backslopes and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 16 inches; sandy loam
2Bt—16 to 26 inches; loamy sand
2Bw,2C1,2C2—26 to 80 inches; sand

L4B—Crowfork loamy sand, 1 to 6 percent slopes

Component Description

Crowfork and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Summits and backslopes
Slope range: 1 to 6 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
   Ap—0 to 11 inches; loamy sand
   E—11 to 20 inches; loamy fine sand
   E&Bt—20 to 76 inches; loamy sand
   C—76 to 80 inches; sand

Eden Prairie
Extent: 0 to 20 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Flats and swales
Slope range: 1 to 3 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
   Ap—0 to 10 inches; sandy loam
   Bt—10 to 16 inches; sandy loam
   2Bt—16 to 26 inches; loamy sand
   2Bw,2C1,2C2—26 to 80 inches; sand

L4C—Crowfork loamy sand, 6 to 12 percent slopes

Component Description
Crowfork and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Summits and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None

L4D—Crowfork loamy sand, 12 to 18 percent slopes

Component Description
Crowfork and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 12 to 18 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
   Ap—0 to 11 inches; loamy sand
   E—11 to 20 inches; loamy fine sand
   E&Bt—20 to 76 inches; loamy sand
   C—76 to 80 inches; sand

Eden Prairie
Extent: 0 to 20 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Swales
Slope range: 1 to 3 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
   Ap—0 to 10 inches; sandy loam
   Bt—10 to 16 inches; sandy loam
   2Bt—16 to 26 inches; loamy sand
   2Bw,2C1,2C2—26 to 80 inches; sand

L6A—Biscay loam, 0 to 2 percent slopes
Component Description
Biscay and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 7.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
   Ap,A1,A2—0 to 20 inches; loam
   Bg—20 to 28 inches; loam
   2BCg—28 to 36 inches; gravelly loam
   2Cg—36 to 60 inches; stratified very gravelly coarse sand to loamy sand

Biscay, depressional
Extent: 0 to 20 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 7.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
   Ap,A1,A2—0 to 23 inches; loam
   Bg—23 to 28 inches; loam
   2BCg—28 to 36 inches; gravelly loam
   2Cg—36 to 60 inches; stratified very gravelly coarse sand to loamy sand

Mayer
Extent: 0 to 10 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Rims of depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 7.3 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
   Ap,A1,A2—0 to 18 inches; loam
   Bg—18 to 33 inches; sandy clay loam
   2C—33 to 80 inches; gravelly coarse sand

L7A—Biscay loam, depressional, 0 to 1 percent slopes

Component Description

Biscay, depressional, and similar soils
Extent: 80 to 100 percent of the unit
Geomorph setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 7.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
   Ap,A1,A2—0 to 20 inches; loam
   Bg—20 to 28 inches; loam
   2BCg—28 to 36 inches; gravelly loam
   2Cg—36 to 60 inches; stratified very gravelly coarse sand to loamy sand

Mayer
Extent: 0 to 10 percent of the unit
Geomorph setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 7.3 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A1,A2—0 to 18 inches; loam
Bg—18 to 33 inches; sandy clay loam
2C—33 to 80 inches; gravelly coarse sand

L8A—Darfur sandy loam, 0 to 2 percent slopes

Component Description
Darfur and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Available water capacity to a depth of 60 inches: 7.6 inches
Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
Ap,A—0 to 16 inches; sandy loam
Bg—16 to 32 inches; sandy clay loam
Cg—32 to 80 inches; stratified sand to loamy fine sand to fine sandy loam

Dassel
Extent: 0 to 20 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Available water capacity to a depth of 60 inches: 10.8 inches
Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
Ap,A—0 to 16 inches; silty clay loam
Btg—16 to 35 inches; silty clay
Cg—35 to 60 inches; silty clay loam

Depressional soil
Extent: 0 to 20 percent of the unit
Geomorphic setting: Lake plains and moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Silty clay loam

L9A—Minnetonka silty clay loam, 0 to 2 percent slopes

Component Description
Minnetonka and similar soils
Extent: 80 to 100 percent of the unit
Geomorphic setting: Moraines and lake plains
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Lacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Available water capacity to a depth of 60 inches: 10.8 inches
Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
Ap,A—0 to 13 inches; silty clay loam
Btg—13 to 35 inches; silty clay
Cg—35 to 60 inches; silty clay loam
**Hennepin County, Minnesota**

*Depth to restrictive feature:* Very deep (more than 60 inches)

*Drainage class:* Very poorly drained

*Parent material:* Lacustrine sediments

*Flooding:* None

*Wet soil moisture status is highest (depth, months):* At the surface (April, May, June)

*Wet soil moisture status is lowest (depth, months):* 1.5 feet (February)

*Ponding does not occur (months):* January, February, July, August, September, October, November, December

*Ponding is deepest (depth, months):* 1 foot (March, April, May)

*Available water capacity to a depth of 60 inches:* 10.8 inches

*Content of organic matter in the upper 10 inches:* 5 percent

**Typical profile:**
- **Ap,A—**0 to 16 inches; silty clay loam
- **Btg—**16 to 42 inches; silty clay
- **Cg—**42 to 60 inches; silty clay loam

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**L10B—Kasota silty clay loam, 1 to 6 percent slopes**

**Component Description**

*Kasota and similar soils*

*Extent:* 70 to 90 percent of the unit

*Geomorphic setting:* Hills on outwash plains; hills on stream terraces

*Position on the landform:* Summits and backslopes

*Slope range:* 1 to 6 percent

*Texture of the surface layer:* Silty clay loam

*Depth to restrictive feature:* Very deep (more than 60 inches)

*Drainage class:* Well drained

*Parent material:* Glaciolacustrine sediments over outwash

*Flooding:* None

*Depth to wet soil moisture status:* More than 5 feet all year

*Ponding:* None

*Available water capacity to a depth of 60 inches:* 5.9 inches

*Content of organic matter in the upper 10 inches:* 4 percent

**Typical profile:**
- **Ap—**0 to 10 inches; silty clay loam
- **Bt—**10 to 16 inches; silty clay
- **2Bt—**16 to 26 inches; loamy sand
- **2Bw,2C1,2C2—**26 to 80 inches; sand

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**Eden Prairie**

*Extent:* 0 to 15 percent of the unit

*Geomorphic setting:* Hills on outwash plains; hills on stream terraces

*Position on the landform:* Shoulders

*Slope range:* 2 to 6 percent

*Texture of the surface layer:* Sandy loam

*Depth to restrictive feature:* Very deep (more than 60 inches)

*Drainage class:* Somewhat excessively drained

*Parent material:* Outwash

*Flooding:* None

*Depth to wet soil moisture status:* More than 6.7 feet all year

*Ponding:* None

*Available water capacity to a depth of 60 inches:* 4.7 inches

*Content of organic matter in the upper 10 inches:* 3 percent

**Typical profile:**
- **Ap—**0 to 10 inches; sandy loam
- **Bt—**10 to 16 inches; sandy loam
- **2Bt—**16 to 26 inches; loamy sand
- **2Bw,2C1,2C2—**26 to 80 inches; sand

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**Wet soil in swales**

*Extent:* 0 to 15 percent of the unit

*Geomorphic setting:* Outwash plains and stream terraces

*Position on the landform:* Swales

*Slope range:* 0 to 2 percent

*Texture of the surface layer:* Silty clay loam

*Depth to restrictive feature:* Very deep (more than 60 inches)

*Drainage class:* Poorly drained

*Parent material:* Glaciolacustrine sediments

*Flooding:* None

*Wet soil moisture status is highest (depth, months):* 0.5 foot (April, May)

*Wet soil moisture status is lowest (depth, months):* 2.5 feet (February, August)

*Ponding:* None

*Available water capacity to a depth of 60 inches:* 10.8 inches

*Content of organic matter in the upper 10 inches:* 5 percent

**Typical profile:**
- **Ap,A—**0 to 13 inches; silty clay loam
- **Btg—**13 to 35 inches; silty clay
- **Cg—**35 to 60 inches; silty clay loam
- **2Cg—**60 to 80 inches; stratified very gravelly coarse sand to loamy sand
L11B—Grays very fine sandy loam, 2 to 8 percent slopes

Component Description

Grays and similar soils

Extent: 80 to 100 percent of the unit
Geomorphic setting: Hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 2 to 8 percent
Texture of the surface layer: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, March, June, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
  Ap—0 to 7 inches; very fine sandy loam
  Bt—7 to 25 inches; silty clay loam
  C—25 to 60 inches; stratified very fine sandy loam to silt loam

Kasota

Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on outwash plains
Position on the landform: Summits and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Glaciolacustrine sediments over outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.9 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
  Ap—0 to 10 inches; silty clay loam
  Bt—10 to 28 inches; silty clay
  2BC—28 to 32 inches; sand
  2C—32 to 60 inches; coarse sand

Crowfork

Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on outwash plains
Position on the landform: Summits and shoulders
Slope range: 2 to 6 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
  Ap—0 to 11 inches; loamy sand
  E—11 to 20 inches; loamy fine sand
  E&Bt—20 to 76 inches; loamy sand
  C—76 to 80 inches; sand

L12A—Muskego, Blue Earth, and Houghton soils, ponded, 0 to 1 percent slopes, frequently flooded

Component Description

Muskego, frequently flooded, and similar soils

Extent: 0 to 100 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over coprogenous earth
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months): Frequent (March, April, May, June)
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 1 foot (January, February, March, August, September, October)
Ponding is deepest (depth, months): 2 feet (May, June)
Available water capacity to a depth of 60 inches: 19.4 inches
Content of organic matter in the upper 10 inches: 75 percent
Typical profile:
  Oa1—0 to 9 inches; muck
  Oa2—9 to 36 inches; muck
  Lc—36 to 60 inches; coprogenous earth

Blue Earth, frequently flooded, and similar soils
Extent: 0 to 100 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 1 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Coprogenous earth
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months): Frequent (March, April, May, June)
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 1 foot (January, February, March, August, September, October)
Ponding is deepest (depth, months): 2 feet (May, June)

Available water capacity to a depth of 60 inches: 12.6 inches
Content of organic matter in the upper 10 inches: 17.5 percent
Typical profile:
  A—0 to 50 inches; silt loam
  Cg—50 to 60 inches; silt loam

Houghton, frequently flooded, and similar soils
Extent: 0 to 100 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 1 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Coprogenous earth
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months): Frequent (March, April, May, June)
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 1 foot (January, February, March, August, September, October)
Ponding is deepest (depth, months): 2 feet (May, June)

Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7 percent
Typical profile:
  A—0 to 12 inches; silt loam
  Cg—12 to 60 inches; silty clay loam

Oshawa, frequently flooded
Extent: 0 to 15 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Oxbows
Slope range: 0 to 1 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months): Frequent (March, April, May, June)
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 1 foot (January, February, March, August, September, October)
Ponding is deepest (depth, months): 2 feet (May, June)

Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 84.5 percent
Typical profile:
  Oa—0 to 80 inches; muck

L13A—Klossner muck, depressional, 0 to 1 percent slopes
Component Description

Klossner, drained, and similar soils
Extent: 65 to 85 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)

Component Description

Klossner, drained, and similar soils
Extent: 65 to 85 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)

Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December

Ponding is deepest (depth, months): 1 foot (April)

Available water capacity to a depth of 60 inches: 17.7 inches

Content of organic matter in the upper 10 inches: 50 percent

Typical profile:

Op,Oa—0 to 26 inches; muck
2A1—26 to 36 inches; mucky silty clay loam
2A2—36 to 48 inches; silty clay loam
2Cg—48 to 80 inches; loam

Mineral soil, drained

Extent: 5 to 20 percent of the unit

Geomorphic setting: Moraines

Position on the landform: Depressions

Slope range: 0 to 1 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material

Flooding: None

Wet soil moisture status is highest (depth, months): At the surface (March, April)

Wet soil moisture status is lowest (depth, months): 2 feet (February, August)

Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December

Ponding is deepest (depth, months): 1 foot (April)

Available water capacity to a depth of 60 inches: 23.9 inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:

Op—0 to 10 inches; muck
Oa—10 to 80 inches; muck

L14A—Houghton muck, depressional, 0 to 1 percent slopes

Component Description

Houghton, drained, and similar soils

Extent: 65 to 85 percent of the unit

Geomorphic setting: Moraines

Position on the landform: Depressions

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material

Flooding: None

Wet soil moisture status is highest (depth, months): At the surface (March, April)

Wet soil moisture status is lowest (depth, months): 2 feet (February, August)

Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December

Ponding is deepest (depth, months): 1 foot (April)

Available water capacity to a depth of 60 inches: 23.9 inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:

Ap—0 to 13 inches; loam
A,Bg1—13 to 31 inches; clay loam
Bg2—31 to 45 inches; clay loam
Cg—45 to 80 inches; loam

Houghton, drained

Extent: 0 to 10 percent of the unit

Geomorphic setting: Moraines

Position on the landform: Depressions

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material

Flooding: None

Wet soil moisture status is highest (depth, months): At the surface (March, April)

Wet soil moisture status is lowest (depth, months): 2 feet (February, August)

Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December

Ponding is deepest (depth, months): 1 foot (April)

Available water capacity to a depth of 60 inches: 23.9 inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:

Op—0 to 10 inches; muck
Oa—10 to 80 inches; muck

Klossner, drained

Extent: 5 to 20 percent of the unit

Geomorphic setting: Moraines

Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 17.7 inches
Content of organic matter in the upper 10 inches: 50 percent

**Typical profile:**
- Op, Oa—0 to 26 inches; muck
- 2A1—26 to 36 inches; mucky silty clay loam
- 2A2—36 to 48 inches; silty clay loam
- 2Cg—48 to 80 inches; loam

**Mineral soil, drained**
Extent: 5 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent

**Typical profile:**
- Ap—0 to 13 inches; loam
- A,Bg1—13 to 31 inches; clay loam
- Bg2—31 to 45 inches; clay loam
- Cg—45 to 80 inches; loam

**L15A—Klossner, Okoboji, and Glencoe soils, ponded, 0 to 1 percent slopes**

**Component Description**

**Klossner, ponded, and similar soils**
Extent: 0 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over till
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 17.4 inches
Content of organic matter in the upper 10 inches: 42.5 percent

**Typical profile:**
- Oa—0 to 26 inches; muck
- 2A1—26 to 33 inches; silt loam
- 2A2—33 to 40 inches; loam
- 2Cg—40 to 80 inches; loam

**Okoboji, ponded, and similar soils**
Extent: 0 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Mucky silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Alluvium or lacustrine sediments over till
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 11.9 inches
Content of organic matter in the upper 10 inches: 14 percent
Typical profile:
A1—0 to 10 inches; mucky silty clay loam
A2—10 to 52 inches; silty clay loam
Bg—52 to 60 inches; silty clay loam

Glencoe, ponded, and similar soils
Extent: 0 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 7 percent

Typical profile:
A—0 to 42 inches; silty clay loam
Bg—42 to 50 inches; clay loam
Cg—50 to 60 inches; loam

Houghton, ponded
Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over coprogenous earth
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 19.4 inches
Content of organic matter in the upper 10 inches: 75 percent

Typical profile:
Oa—0 to 8 inches; muck
Oa1—8 to 36 inches; muck
Lco—36 to 60 inches; coprogenous earth

L16A—Muskego, Blue Earth, and Houghton soils, ponded, 0 to 1 percent slopes
Component Description

Muskego, ponded, and similar soils
Extent: 0 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over coprogenous earth
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 19.4 inches
Content of organic matter in the upper 10 inches: 75 percent

Typical profile:
Oa—0 to 9 inches; muck
Oa2—9 to 36 inches; muck
Lco—36 to 60 inches; coprogenous earth

Blue Earth, ponded, and similar soils
Extent: 0 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Coprogenous earth
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 12.6 inches
Content of organic matter in the upper 10 inches: 17.5 percent
Hennepin County, Minnesota

Typical profile:
A—0 to 50 inches; silt loam
Cg—50 to 60 inches; silt loam

Houghton, ponded, and similar soils
Extent: 0 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 84.5 percent

Typical profile:
Oa—0 to 80 inches; muck

Klossner, ponded
Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over till
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 84.5 percent

Typical profile:
Oa—0 to 80 inches; muck

L17B—Angus-Malardi complex, 2 to 6 percent slopes

Component Description

Angus and similar soils
Extent: 40 to 75 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 2 to 5 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:
Ap—0 to 8 inches; loam
Bt—8 to 35 inches; clay loam
BC—35 to 40 inches; clay loam
C—40 to 80 inches; loam

Malardi and similar soils
Extent: 20 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 15 inches; sandy loam
2Bt—15 to 29 inches; loamy coarse sand
2C—29 to 80 inches; gravelly sand

Moon

Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits
Slope range: 2 to 5 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap—0 to 8 inches; loamy fine sand
E—8 to 24 inches; loamy fine sand
2Bt—24 to 46 inches; sandy clay loam
2C—46 to 60 inches; loam

Cordova

Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
Ap,AB—0 to 13 inches; loam
BE,Btg—13 to 33 inches; clay loam
2Bk—41 to 80 inches; silty clay loam

L18A—Shields silty clay loam, 0 to 3 percent slopes

Component Description

Shields and similar soils

Extent: 80 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 0 to 3 percent
Texture of the surface layer: Silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months): 1 foot (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 8.7 inches
Content of organic matter in the upper 10 inches: 4.5 percent
Typical profile:
Ap—0 to 8 inches; silty clay loam
BE,Btg—8 to 41 inches; silty clay
2Bk—41 to 80 inches; silty clay loam

Lerdal

Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.6 feet (November)
Wet soil moisture status is lowest (depth, months): 4.9 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.1 inches
Content of organic matter in the upper 10 inches: 5.1 percent
Typical profile:
  Ap—0 to 9 inches; silty clay loam
  Bt,Btg—9 to 42 inches; silty clay
  Bw,Bk—42 to 60 inches; loam

Mazaska
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.6 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
  Ap,A—0 to 15 inches; silty clay loam
  Btg—15 to 42 inches; clay
  Bkg—42 to 80 inches; loam

L19B—Moon loamy fine sand, 2 to 5 percent slopes

Component Description
Moon and similar soils
Extent: 75 to 95 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 2 to 5 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)

Fedji, silty substratum, and similar soils
Extent: 75 to 95 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 2 to 8 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash over glaciolacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 3.3 feet (May)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
  Ap—0 to 10 inches; loamy fine sand
  Bw—10 to 30 inches; loamy fine sand
  2Bw—30 to 39 inches; silt loam
  2Bk—39 to 60 inches; silt loam

Finchford
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and footslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.3 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
  Ap, A—0 to 17 inches; loam
  Bkg—17 to 36 inches; clay loam
  Cg—36 to 80 inches; loam

Cordova
Extent: 5 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
  Ap, AB—0 to 13 inches; loam
  Btg—13 to 33 inches; clay loam
  Cg—33 to 80 inches; loam

L21A—Canisteo loam, 0 to 2 percent slopes

Component Description
Canisteo and similar soils
Extent: 75 to 90 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and rims of depressions
Slope range: 0 to 2 percent
Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.3 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
  Ap, A—0 to 17 inches; loam
  Bkg—17 to 36 inches; clay loam
  Cg—36 to 80 inches; loam

Glencoe
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent
Typical profile:
Ap—0 to 13 inches; loam
A,Bg1—13 to 31 inches; clay loam
Bg2—31 to 45 inches; loam
Cg—45 to 80 inches; loam

L22C2—Lester loam, morainic, 6 to 12 percent slopes, eroded

Component Description

Lester, eroded, and similar soils

Extent: 60 to 80 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and shoulders
Slope range: 6 to 12 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap—0 to 8 inches; loam
Bt—8 to 35 inches; clay loam
BC—35 to 40 inches; clay loam
C—40 to 80 inches; loam

Terril

Extent: 5 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 0 to 4 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
Ap,A1—0 to 27 inches; loam
A2,BA—27 to 40 inches; loam
Bw—40 to 63 inches; loam
C—63 to 80 inches; loam

Hamel

Extent: 0 to 5 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A,AB—0 to 24 inches; loam
Btg—24 to 46 inches; clay loam
Cg—46 to 80 inches; loam

L22D2—Lester loam, morainic, 12 to 18 percent slopes, eroded

Component Description

Lester, eroded, and similar soils
Extent: 70 to 90 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and backslopes
Slope range: 12 to 18 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
Ap—0 to 7 inches; loam
Bt—7 to 38 inches; clay loam
Bk—38 to 60 inches; loam
C—60 to 80 inches; loam

Hamel
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
Ap,A1—0 to 27 inches; loam
A2,BA—27 to 40 inches; loam
Bw—40 to 63 inches; loam
C—63 to 80 inches; loam

Ridgeton
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 8 to 14 percent
Texture of the surface layer: Loam

Extent: 2 to 6 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
Ap,A1—0 to 27 inches; loam
A2,BA—27 to 40 inches; loam
Bw—40 to 63 inches; loam
C—63 to 80 inches; loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.2 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
  Ap,A1—0 to 23 inches; loam
  A2,AB—23 to 38 inches; loam
  Bw—38 to 50 inches; loam
  C—50 to 80 inches; loam

L22E—Lester loam, morainic, 18 to 25 percent slopes

Component Description

Lester, morainic, and similar soils

Extent: 70 to 90 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and shoulders
Slope range: 18 to 25 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
  A—0 to 5 inches; loam
  BE,Bt—5 to 34 inches; clay loam
  Bk—34 to 60 inches; loam
  C—60 to 80 inches; loam

Hamel

Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
  A1,A2—0 to 24 inches; loam
  AB—24 to 37 inches; loam
  Bw—37 to 57 inches; loam
  C—57 to 80 inches; loam

Ridgeton

Extent: 5 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained  
Parent material: Colluvium over till  
Flooding: None  
Depth to wet soil moisture status: More than 6.7 feet all year  
Ponding: None  
Available water capacity to a depth of 60 inches: 11.4 inches  
Content of organic matter in the upper 10 inches: 5 percent  
Typical profile:  
A1,A2,A3—0 to 32 inches; loam  
Bw—32 to 40 inches; loam  
C1,C2—40 to 80 inches; loam

L22F—Lester loam, morainic, 25 to 35 percent slopes

Component Description

Lester, morainic, and similar soils

Extent: 70 to 90 percent of the unit  
Geomorphic setting: Escarpments on moraines  
Position on the landform: Backslopes and shoulders  
Slope range: 25 to 35 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Well drained  
Parent material: Till  
Flooding: None  
Depth to wet soil moisture status: More than 6.7 feet all year  
Ponding: None  
Available water capacity to a depth of 60 inches: 10.4 inches  
Content of organic matter in the upper 10 inches: 3 percent  
Typical profile:  
A—0 to 5 inches; loam  
BE,Bt—5 to 34 inches; clay loam  
Bk—34 to 60 inches; loam  
C—60 to 80 inches; loam

Terril

Extent: 5 to 20 percent of the unit  
Geomorphic setting: Escarpments on moraines  
Position on the landform: Footslopes  
Slope range: 2 to 6 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Moderately well drained  
Parent material: Colluvium over till  
Flooding: None  
Wet soil moisture status is highest (depth, months): 3.6 feet (April)  
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 11.3 inches  
Content of organic matter in the upper 10 inches: 4 percent  
Typical profile:  
A1,A2—0 to 24 inches; loam  
AB—24 to 37 inches; loam  
Bw—37 to 57 inches; loam  
C—57 to 80 inches; loam

Ridgeton

Extent: 0 to 20 percent of the unit  
Geomorphic setting: Escarpments on moraines  
Position on the landform: Backslopes and footslopes  
Slope range: 18 to 25 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Well drained  
Parent material: Colluvium over till  
Flooding: None  
Depth to wet soil moisture status: More than 6.7 feet all year  
Ponding: None  
Available water capacity to a depth of 60 inches: 11.4 inches  
Content of organic matter in the upper 10 inches: 5 percent  
Typical profile:  
A1,A2,A3—0 to 32 inches; loam  
Bw—32 to 40 inches; loam  
C1,C2—40 to 80 inches; loam

Hamel

Extent: 0 to 10 percent of the unit  
Geomorphic setting: Escarpments on moraines  
Position on the landform: Toeslopes  
Slope range: 1 to 3 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Poorly drained  
Parent material: Colluvium over till  
Flooding: None  
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
A1,A2—0 to 22 inches; loam
Btg—22 to 41 inches; clay loam
Cg—41 to 80 inches; loam

L23A—Cordova loam, 0 to 2 percent slopes

Component Description

Cordova and similar soils
Extent: 80 to 95 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
Ap,AB—0 to 13 inches; loam
A,Bg1—13 to 31 inches; clay loam
Bg2—31 to 45 inches; loam
Cg—45 to 80 inches; loam

Glencoe
Extent: 5 to 15 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent
Typical profile:
Ap—0 to 13 inches; loam
A,Bg1—13 to 31 inches; clay loam
Bg2—31 to 45 inches; loam
Cg—45 to 80 inches; loam

Nessel
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
Ap—0 to 6 inches; loam
Bt—6 to 38 inches; clay loam
C—38 to 80 inches; loam

L24A—Glencoe loam, depressional, 0 to 1 percent slopes

Component Description

Glencoe, depressional, and similar soils
Extent: 85 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent
Typical profile:
  Ap—0 to 13 inches; loam
  A,Bg1—13 to 31 inches; clay loam
  Bg2—31 to 45 inches; loam
  Cg—45 to 80 inches; loam

Cordova
Extent: 5 to 15 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Rims of depressions
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
  A1,A2,AB—0 to 17 inches; loam
  Bt—17 to 36 inches; clay loam
  Bk—36 to 46 inches; loam
  C—46 to 80 inches; loam

L25A—Le Sueur loam, 1 to 3 percent slopes

Component Description
Le Sueur and similar soils
Extent: 75 to 90 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
  A1,A2—0 to 17 inches; loam
  Bt—17 to 36 inches; clay loam
  Bk—36 to 46 inches; loam
  C—46 to 80 inches; loam

Cordova
Extent: 5 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches

Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.5 percent

Typical profile:
- Ap, AB—0 to 13 inches; loam
- Btg—13 to 33 inches; clay loam
- Cg—33 to 80 inches; loam

Angus

Extent: 0 to 10 percent of the unit

Geomorphic setting: Hills on moraines

Position on the landform: Summits and backslopes

Slope range: 2 to 5 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Till

Flooding: None

Wet soil moisture status is highest (depth, months): 1.5 feet (April)

Wet soil moisture status is lowest (depth, months): More than 5 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.2 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
- Ap, A, AB—0 to 17 inches; silty clay loam
- Bt—17 to 39 inches; silty clay
- 2BCg, 2Cg—39 to 60 inches; loam

Minnetonka

Extent: 0 to 20 percent of the unit

Geomorphic setting: Moraines and lake plains

Position on the landform: Flats and swales

Slope range: 0 to 2 percent

Texture of the surface layer: Silty clay loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Lacustrine sediments

Flooding: None

Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)

Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 10.8 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
- Ap, A—0 to 8 inches; loam
- Bt—8 to 35 inches; clay loam
- BC—35 to 40 inches; clay loam
- C—40 to 80 inches; loam

Good Thunder

Extent: 0 to 10 percent of the unit

Geomorphic setting: Moraines and lake plains

Position on the landform: Slight rises

Slope range: 0 to 3 percent

Texture of the surface layer: Silty clay loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Lacustrine sediments

Flooding: None

L26A—Shorewood silty clay loam, 0 to 3 percent slopes

Component Description

Shorewood and similar soils

Extent: 70 to 90 percent of the unit

Geomorphic setting: Lake plains and moraines

Position on the landform: Slight rises

Slope range: 0 to 3 percent

Texture of the surface layer: Silty clay loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Lacustrine sediments over till

Flooding: None

Wet soil moisture status is highest (depth, months): 3.6 feet (April)

Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)

Ponding: None

Available water capacity to a depth of 60 inches: 10.5 inches

Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:
- Ap—0 to 8 inches; loam
- Bt—8 to 35 inches; clay loam
- BC—35 to 40 inches; clay loam
- C—40 to 80 inches; loam
Wet soil moisture status is highest (depth, months): 2.5 feet (April, May)
Wet soil moisture status is lowest (depth, months): 5.6 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.5 percent

Typical profile:
- **Ap,A**—0 to 15 inches; silty clay loam
- **Bt**—15 to 32 inches; silty clay
- **C**—32 to 80 inches; silt loam

**L26B—Shorewood silty clay loam, 3 to 6 percent slopes**

**Component Description**

Shorewood and similar soils

- **Extent:** 85 to 95 percent of the unit
- **Geomorphic setting:** Hills on moraines; hills on lake plains
- **Position on the landform:** Summits and backslopes
- **Slope range:** 3 to 6 percent
- **Texture of the surface layer:** Silty clay loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Moderately well drained
- **Parent material:** Lacustrine sediments over till
- **Flooding:** None

Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months):
  - More than 5 feet (January, February, July, August, September, October)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
- **Ap,A,AB**—0 to 17 inches; silty clay loam
- **Btg**—13 to 35 inches; silty clay
- **2BCg,2Cg**—39 to 60 inches; loam

**Good Thunder**

- **Extent:** 0 to 10 percent of the unit
- **Geomorphic setting:** Lake plains and moraines
- **Position on the landform:** Flats and slight rises
- **Slope range:** 0 to 3 percent
- **Texture of the surface layer:** Silty clay loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)

Drainage class: Moderately well drained
Parent material: Lacustrine sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.8 inches
Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
- **Ap,A**—0 to 13 inches; silty clay loam
- **Btg**—13 to 35 inches; silty clay
- **Cg**—35 to 60 inches; silty clay loam

**L26C2—Shorewood silty clay loam, 6 to 12 percent slopes, eroded**

**Component Description**

Shorewood, eroded, and similar soils

- **Extent:** 80 to 100 percent of the unit
- **Geomorphic setting:** Hills on moraines; hills on lake plains
- **Position on the landform:** Summits and backslopes
- **Slope range:** 6 to 12 percent
- **Texture of the surface layer:** Silty clay loam
**Depth to restrictive feature**: Very deep (more than 60 inches)
**Drainage class**: Somewhat poorly drained
**Parent material**: Lacustrine sediments over till
**Flooding**: None
**Wet soil moisture status is highest (depth, months)**: 1.5 feet (April)
**Wet soil moisture status is lowest (depth, months)**: More than 5 feet (January, February, March, June, July, August, September, October, November, December)
**Ponding**: None
**Available water capacity to a depth of 60 inches**: 10.2 inches
**Content of organic matter in the upper 10 inches**: 2.5 percent

**Typical profile**:
- Ap,A,AB—0 to 17 inches; silty clay loam
- Bt—17 to 39 inches; silty clay
- 2BCg,2Cg—39 to 60 inches; loam

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**Minnetonka**

*Extent*: 0 to 10 percent of the unit  
*Geomorphologic setting*: Lake plains and moraines  
*Position on the landform*: Flats and swales  
*Slope range*: 0 to 2 percent  
*Texture of the surface layer*: Silty clay loam  
*Depth to restrictive feature*: Very deep (more than 60 inches)  
*Drainage class*: Poorly drained  
*Parent material*: Lacustrine sediments  
*Flooding*: None  
**Wet soil moisture status is highest (depth, months)**: 0.5 foot (April, May)  
**Wet soil moisture status is lowest (depth, months)**: 2.5 feet (February, August)  
**Ponding**: None  
**Available water capacity to a depth of 60 inches**: 10.8 inches  
**Content of organic matter in the upper 10 inches**: 5 percent  

**Typical profile**:
- A—0 to 22 inches; loam  
- Cg—22 to 80 inches; loamy fine sand

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**Suckercreek, occasionally flooded**

*Extent*: 0 to 20 percent of the unit  
*Geomorphologic setting*: Flood plains  
*Position on the landform*: Flats  
*Slope range*: 0 to 2 percent  
*Texture of the surface layer*: Fine sandy loam  
*Depth to restrictive feature*: Very deep (more than 60 inches)  
*Drainage class*: Poorly drained  
*Parent material*: Alluvium  
**Flooding does not occur (months)**: January, February, September, October, November, December  
**Flooding is most likely (frequency, months)**: Frequent (March, April, May, June)  
**Wet soil moisture status is highest (depth, months)**: At the surface (April, May, June)  
**Wet soil moisture status is lowest (depth, months)**: 1.8 feet (February)  
**Ponding**: None  
**Available water capacity to a depth of 60 inches**: 9.9 inches  
**Content of organic matter in the upper 10 inches**: 5 percent  

**Typical profile**:
- A—0 to 12 inches; fine sandy loam  
- Cg—12 to 80 inches; fine sandy loam

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**L27A—Suckercreek loam, 0 to 2 percent slopes, frequently flooded**

**Component Description**

**Suckercreek, frequently flooded, and similar soils**

*Extent*: 80 to 100 percent of the unit  
*Geomorphlogic setting*: Flood plains

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**Position on the landform**: Drainageways  
*Slope range*: 0 to 2 percent  
*Texture of the surface layer*: Loam  
*Depth to restrictive feature*: Very deep (more than 60 inches)  
*Drainage class*: Very poorly drained  
*Parent material*: Alluvium  
**Flooding does not occur (months)**: January, February, September, October, November, December  
**Flooding is most likely (frequency, months)**: Frequent (March, April, May, June)  
**Wet soil moisture status is highest (depth, months)**: At the surface (April, May, June)  
**Wet soil moisture status is lowest (depth, months)**: 1.8 feet (February)  
**Ponding**: None  
**Available water capacity to a depth of 60 inches**: 9.2 inches  
**Content of organic matter in the upper 10 inches**: 5 percent  

**Typical profile**:
- A—0 to 12 inches; fine sandy loam  
- Cg—12 to 80 inches; fine sandy loam

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**Hanlon, occasionally flooded**

*Extent*: 0 to 5 percent of the unit  
*Geomorphologic setting*: Flood plains
Position on the landform: Flats and slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months):
  2.5 feet (April)
Wet soil moisture status is lowest (depth, months): 3.9 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
  A1,A2—0 to 40 inches; fine sandy loam
  A3—40 to 63 inches; fine sandy loam
  Bw—63 to 70 inches; sandy loam
  Cg—70 to 80 inches; stratified sand to loamy fine sand to fine sandy loam

L28A—Suckercreek fine sandy loam, 0 to 2 percent slopes, occasionally flooded

Component Description

Suckercreek, occasionally flooded, and similar soils
Extant: 70 to 100 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months):
  2.5 feet (April)
Wet soil moisture status is lowest (depth, months): 3.9 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
  A—0 to 12 inches; fine sandy loam
  Cg—12 to 80 inches; fine sandy loam

Suckercreek, frequently flooded
Extant: 0 to 20 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Drainageways
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Frequent (March, April, May, June)
Wet soil moisture status is highest (depth, months):
  At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.8 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 9.9 inches
Content of organic matter in the upper 10 inches: 9.9 percent
Typical profile:
  A—0 to 22 inches; loam
  Cg—22 to 80 inches; loamy fine sand

Hanlon, occasionally flooded
Extant: 0 to 20 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats and slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): 3.9 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
  A—0 to 22 inches; loam
  Cg—22 to 80 inches; loamy fine sand
Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:
A1, A2—0 to 40 inches; fine sandy loam
A3—40 to 63 inches; fine sandy loam
Bw—63 to 70 inches; sandy loam
Cg—70 to 80 inches; stratified sand to loamy fine sand to fine sandy loam

L29A—Hanlon fine sandy loam, 0 to 2 percent slopes, occasionally flooded

Component Description

Hanlon, occasionally flooded, and similar soils

Extent: 75 to 100 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats and slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): 3.9 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:
A1, A2—0 to 40 inches; fine sandy loam
A3—40 to 63 inches; fine sandy loam
Bw—63 to 70 inches; sandy loam
Cg—70 to 80 inches; stratified sand to loamy fine sand to fine sandy loam

Suckercreek, frequently flooded

Extent: 0 to 20 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Drainageways
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months): Frequent (March, April, May, June)
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.8 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 9.9 inches
Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
A—0 to 12 inches; fine sandy loam
Cg—12 to 80 inches; fine sandy loam

L30A—Medo soils, depressional, 0 to 1 percent slopes

Component Description

Medo, surface drained, and similar soils

Extent: 50 to 100 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 14.3 inches
Content of organic matter in the upper 10 inches: 70 percent
Typical profile:
Oa—0 to 27 inches; muck
2A—27 to 35 inches; mucky loam
2Bg—35 to 39 inches; sandy clay loam
2Cg—39 to 80 inches; gravelly loamy coarse sand

Medo, drained, and similar soils

Extent: 0 to 40 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 6.8 inches
Content of organic matter in the upper 10 inches: 8 percent
Typical profile:
Ap,A3—0 to 23 inches; fine sandy loam
Bg—23 to 31 inches; stratified loamy fine sand to fine sandy loam
2Cg—31 to 60 inches; stratified coarse sand to loamy sand

L31A—Medo, Dassel, and Biscay soils, ponded, 0 to 1 percent slopes

Component Description

Medo, ponded, and similar soils

Extent: 0 to 100 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over outwash
Flooding: None
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 0.5 foot (August)
Hennepin County, Minnesota

Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 12.2 inches
Content of organic matter in the upper 10 inches: 70 percent

Typical profile:
- Oa—0 to 20 inches; muck
- 2A—20 to 34 inches; loam
- 2AC,2Cg—34 to 60 inches; sand

**Dassel, ponded, and similar soils**

Extent: 0 to 100 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status: At the surface all year

Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 6.8 inches
Content of organic matter in the upper 10 inches: 8 percent

Typical profile:
- A1,A3—0 to 23 inches; fine sandy loam
- Bg—23 to 31 inches; stratified loamy fine sand to fine sandy loam
- 2Cg—31 to 60 inches; stratified coarse sand to loamy sand

**Biscay, ponded, and similar soils**

Extent: 0 to 100 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Outwash
Flooding: None
Wet soil moisture status: At the surface all year

Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 6.9 inches
Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
- A1,AB—0 to 24 inches; loam
- Bg—24 to 29 inches; loam
- 2BCg,2Cg—29 to 60 inches; stratified very gravelly coarse sand to loamy sand

**Houghton, ponded**

Extent: 0 to 10 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material
Flooding: None
Wet soil moisture status: At the surface all year

Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 23.9 inches
Content of organic matter in the upper 10 inches: 84.5 percent

Typical profile:
- Oa—0 to 80 inches; muck

**Muskego, ponded**

Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over coprogenous earth
Flooding: None
Wet soil moisture status: At the surface all year

Ponding is shallowest (depth, months): 0.5 foot (August)
Ponding is deepest (depth, months): 3 feet (March, April, May)
Available water capacity to a depth of 60 inches: 19.4 inches
Content of organic matter in the upper 10 inches: 75 percent
Typical profile:
   Oa1—0 to 9 inches; muck
   Oa2—9 to 36 inches; muck
   Lco—36 to 60 inches; coprogenous earth

L32D—Hawick loamy sand, 12 to 18 percent slopes

Component Description

Hawick and similar soils
Extent: 70 to 100 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Backslopes, shoulders, and summits
Slope range: 12 to 18 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.3 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
   A—0 to 11 inches; loamy sand
   Bw—11 to 15 inches; loamy sand
   C—15 to 80 inches; stratified gravelly coarse sand to sand

Crowfork
Extent: 0 to 20 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Backslopes, summits, and shoulders
Slope range: 12 to 18 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
   A,AB—0 to 33 inches; loam
   Bw—33 to 42 inches; sandy loam
   2Bw—42 to 47 inches; loamy coarse sand
   2C—47 to 80 inches; gravelly loamy coarse sand

L32F—Hawick loamy sand, 18 to 40 percent slopes

Component Description

Hawick and similar soils
Extent: 70 to 100 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Summits, shoulders, and backslopes
Slope range: 18 to 40 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.3 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
A—0 to 11 inches; loamy sand
Bw—11 to 15 inches; loamy sand
C—15 to 80 inches; stratified gravelly coarse sand to sand

Crowfork
Extent: 0 to 20 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Shoulders, summits, and backslopes
Slope range: 18 to 40 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.4 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
A—0 to 11 inches; loamy sand
E—11 to 19 inches; loamy fine sand
E&Bt—19 to 54 inches; loamy sand
C—54 to 60 inches; sand

Tomall
Extent: 5 to 20 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Footslopes and toeslopes
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over outwash
Flooding: None
Wet soil moisture status is highest (depth, months): 1.6 feet (November)
Wet soil moisture status is lowest (depth, months): 4.9 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
Ap—0 to 13 inches; loam
Bt,Btg—13 to 47 inches; clay loam
Bk—47 to 60 inches; loam

Mazaska
Extent: 5 to 15 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Glaciofluvial sediments and reworked till over till

L35A—Lerdal loam, 1 to 3 percent slopes

Component Description
Lerdal and similar soils
Extent: 75 to 85 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.6 feet (November)
Wet soil moisture status is lowest (depth, months): 4.9 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
Ap—0 to 13 inches; loam
Bt,Btg—13 to 47 inches; clay loam
Bk—47 to 60 inches; loam
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.6 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
Ap,A—0 to 15 inches; silty clay loam
Btg—15 to 42 inches; clay
Bkg—42 to 80 inches; loam

Cordova
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.5 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
Ap,AB—0 to 13 inches; loam
Btg—13 to 33 inches; clay loam
Bkg—33 to 80 inches; loam

Le Sueur
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet (April)

L36A—Hamel, overwash-Hamel complex, 1 to 4 percent slopes

Component Description
Hamel, overwash, and similar soils
Extent: 40 to 60 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Drainageways and swales
Slope range: 1 to 4 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.8 inches
Content of organic matter in the upper 10 inches: 3.5 percent
Typical profile:
Ap—0 to 13 inches; loam
A—13 to 29 inches; clay loam
Btg—29 to 50 inches; clay loam
C—50 to 80 inches; loam

Hamel and similar soils
Extent: 30 to 55 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Drainageways and swales
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
   Ap,A,AB—0 to 24 inches; loam
   Btg—24 to 46 inches; clay loam
   Cg—46 to 80 inches; loam

Terril
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 2 to 5 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): At
   the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October,
   November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent
Typical profile:
   Ap,A1—0 to 27 inches; loam
   A2,BA—27 to 40 inches; loam
   Bw—40 to 63 inches; loam
   C—63 to 80 inches; loam

Glencoe
Extent: 0 to 5 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): At
   the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October,
   November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent
Typical profile:
   Ap—0 to 13 inches; loam
   A,Bg1—13 to 31 inches; clay loam
   Bg2—31 to 45 inches; loam
   Cg—45 to 80 inches; loam

L37B—Angus loam, morainic, 2 to 5 percent slopes

Component Description

Angus, morainic, and similar soils
Extent: 50 to 90 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 2 to 5 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July,
   August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
   Ap—0 to 8 inches; loam
   Bt—8 to 35 inches; clay loam
   BC—35 to 40 inches; clay loam
   C—40 to 80 inches; loam

Angus, eroded
Extent: 5 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders  
Slope range: 2 to 5 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Well drained  
Parent material: Till  
Flooding: None  
Wet soil moisture status is highest (depth, months): 3.6 feet (April)  
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 10.5 inches  
Content of organic matter in the upper 10 inches: 1.8 percent  
Typical profile:  
Ap—0 to 8 inches; loam  
Bt—8 to 35 inches; clay loam  
Bk—35 to 58 inches; loam  
C—58 to 80 inches; loam

Le Sueur  
Extent: 5 to 15 percent of the unit  
Geomorphic setting: Moraines  
Position on the landform: Flats and slight rises  
Slope range: 1 to 3 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Somewhat poorly drained  
Parent material: Till  
Flooding: None  
Wet soil moisture status is highest (depth, months): 1.5 feet (April)  
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (February, August)  
Ponding: None  
Available water capacity to a depth of 60 inches: 11 inches  
Content of organic matter in the upper 10 inches: 5 percent  
Typical profile:  
A1,A2,AB—0 to 13 inches; loam  
Btg—13 to 33 inches; clay loam  
Cg—33 to 80 inches; loam

L38A—Rushriver very fine sandy loam, 0 to 2 percent slopes, occasionally flooded  
Component Description  
Rushriver, occasionally flooded, and similar soils  
Extent: 70 to 85 percent of the unit  
Geomorphic setting: Flood plains  
Position on the landform: Flats and swales  
Slope range: 0 to 2 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Poorly drained  
Parent material: Alluvium  
Flooding does not occur (months): January, February, September, October, November, December  
Flooding is most likely (frequency, months):  
  Occasional (March, April, May, June, July, August)  
Wet soil moisture status is highest (depth, months): 0.5 foot (April)  
Wet soil moisture status is lowest (depth, months): 2.3 feet (September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 8 inches  
Content of organic matter in the upper 10 inches: 2.5 percent  
Typical profile:  
A—0 to 46 inches; very fine sandy loam  
C—46 to 80 inches; stratified coarse sand to silt loam

Cordova  
Extent: 0 to 10 percent of the unit  
Geomorphic setting: Moraines  
Position on the landform: Flats and swales  
Slope range: 0 to 2 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Poorly drained  
Parent material: Alluvium  
Flooding does not occur (months): January, February, September, October, November, December  
Flooding is most likely (frequency, months):  
  Occasional (March, April, May, June, July, August)  
Wet soil moisture status is highest (depth, months): 0.5 foot (April)  
Wet soil moisture status is lowest (depth, months): 2.3 feet (September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 8 inches  
Content of organic matter in the upper 10 inches: 2.5 percent  
Typical profile:  
A—0 to 46 inches; very fine sandy loam  
C—46 to 80 inches; stratified coarse sand to silt loam
### Oshawa, frequently flooded

**Extent:** 10 to 20 percent of the unit  
**Geomorphic setting:** Flood plains  
**Position on the landform:** Oxbows and swales  
**Slope range:** 0 to 1 percent  
**Texture of the surface layer:** Silt loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Very poorly drained  
**Parent material:** Alluvium  
**Flooding does not occur (months):** January, February, September, October, November, December  
**Flooding is most likely (frequency, months):** Frequent (March, April, May, June)  
**Wet soil moisture status:** At the surface all year  
**Ponding is shallowest (depth, months):** 1 foot (January, February, March, August, September, October)  
**Ponding is deepest (depth, months):** 2 feet (May, June)  
**Available water capacity to a depth of 60 inches:** 11.1 inches  
**Content of organic matter in the upper 10 inches:** 7 percent  
**Typical profile:**  
- A—0 to 12 inches; silt loam  
- Cg—12 to 60 inches; silty clay loam

### Minneiska, occasionally flooded

**Extent:** 0 to 10 percent of the unit  
**Geomorphic setting:** Flood plains  
**Position on the landform:** Slight rises  
**Slope range:** 0 to 2 percent  
**Texture of the surface layer:** Fine sandy loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Moderately well drained  
**Parent material:** Alluvium  
**Flooding does not occur (months):** January, February, September, October, November, December  
**Flooding is most likely (frequency, months):** Occasional (March, April, May, June, July, August)  
**Wet soil moisture status is highest (depth, months):** 2.5 feet (April)  
**Wet soil moisture status is lowest (depth, months):** 4.5 feet (September)  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 5 inches  
**Content of organic matter in the upper 10 inches:** 1.9 percent  
**Typical profile:**  
- A—0 to 6 inches; loamy sand  
- C—6 to 60 inches; stratified sand to loam

### Algansee, occasionally flooded

**Extent:** 0 to 10 percent of the unit  
**Geomorphic setting:** Flood plains  
**Position on the landform:** Slight rises  
**Slope range:** 0 to 2 percent  
**Texture of the surface layer:** Loamy sand  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Somewhat poorly drained  
**Parent material:** Alluvium  
**Flooding does not occur (months):** January, February, September, October, November, December  
**Flooding is most likely (frequency, months):** Occasional (March, April, May, June, July, August)  
**Wet soil moisture status is highest (depth, months):** 1.5 feet (April)  
**Wet soil moisture status is lowest (depth, months):** 4.5 feet (September)  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 5 inches  
**Content of organic matter in the upper 10 inches:** 3.5 percent  
**Typical profile:**  
- A—0 to 2 inches; fine sandy loam  
- C—2 to 60 inches; stratified sand to loam

### L39A—Minneiska fine sandy loam, 0 to 2 percent slopes, occasionally flooded

**Component Description**

Minneiska, occasionally flooded, and similar soils

**Extent:** 65 to 80 percent of the unit  
**Geomorphic setting:** Flood plains  
**Position on the landform:** Slight rises  
**Slope range:** 0 to 2 percent  
**Texture of the surface layer:** Fine sandy loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Moderately well drained  
**Parent material:** Alluvium  
**Flooding does not occur (months):** January, February, September, October, November, December  
**Flooding is most likely (frequency, months):** Occasional (March, April, May, June, July, August)  
**Wet soil moisture status is highest (depth, months):** 2.5 feet (April)  
**Wet soil moisture status is lowest (depth, months):** 4.5 feet (February)  
**Ponding:** None
Available water capacity to a depth of 60 inches: 9.7 inches
Content of organic matter in the upper 10 inches: 3.5 percent
Typical profile:
Ap—0 to 10 inches; fine sandy loam
C—10 to 60 inches; stratified sand to silt loam

Rushriver, occasionally flooded
Extent: 5 to 20 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 2.3 feet (September)
Ponding: None
Available water capacity to a depth of 60 inches: 8 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
A—0 to 46 inches; very fine sandy loam
C—46 to 80 inches; stratified coarse sand to silt loam

Oshawa, frequently flooded
Extent: 5 to 15 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Oxbows and swales
Slope range: 0 to 1 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
Occasional (March, April, May, June, July, August)
Wet soil moisture status: At the surface all year
Ponding is shallowest (depth, months): 1 foot (January, February, March, August, September, October)
Ponding is deepest (depth, months): 2 feet (May, June)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7 percent
Typical profile:
A—0 to 12 inches; silt loam
Cg—12 to 60 inches; silty clay loam

Algansee, occasionally flooded
Extent: 0 to 10 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (September)
Ponding: None
Available water capacity to a depth of 60 inches: 5 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
A—0 to 6 inches; loamy sand
C—6 to 60 inches; stratified sand to loam

L40B—Angus-Kilkenny complex, 2 to 6 percent slopes

Component Description

Angus and similar soils
Extent: 35 to 55 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 2 to 5 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Hennepin County, Minnesota

Wet soil moisture status is lowest (depth, months):
More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap—0 to 8 inches; loam
Bt—8 to 35 inches; clay loam
BC—35 to 40 inches; clay loam
C—40 to 80 inches; loam

Kilkenny and similar soils
Extent: 30 to 50 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and shoulders
Slope range: 2 to 6 percent
Texture of the surface layer: Clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months):
1.7 feet (April)
Wet soil moisture status is lowest (depth, months):
More than 6.7 feet (February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap—0 to 11 inches; clay loam
Bt—11 to 35 inches; clay loam
Bk,2C—35 to 80 inches; loam

Lerdal
Extent: 5 to 15 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None

Mazaska
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Silty clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months):
0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months):
2.6 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 9.5 inches
Content of organic matter in the upper 10 inches: 5.5 percent
Typical profile:
Ap,A—0 to 15 inches; silty clay loam
Btg—15 to 42 inches; clay
Bkg—42 to 80 inches; loam

L41C2—Lester-Kilkenny complex, 6 to 12 percent slopes, eroded

Component Description

Lester, eroded, and similar soils
Extent: 40 to 50 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Loam
**Depth to restrictive feature**: Very deep (more than 60 inches)

**Drainage class**: Well drained

**Parent material**: Till

**Flooding**: None

**Depth to wet soil moisture status**: More than 6.7 feet all year

**Ponding**: None

**Available water capacity to a depth of 60 inches**: 10.5 inches

**Content of organic matter in the upper 10 inches**: 1.6 percent

**Typical profile**:
- Ap—0 to 7 inches; loam
- Bt—7 to 38 inches; clay loam
- Bk—38 to 60 inches; loam
- C—60 to 80 inches; loam

**Kilkenny, eroded, and similar soils**

**Extent**: 35 to 45 percent of the unit

**Geomorphologic setting**: Hills on moraines

**Position on the landform**: Shoulders and summits

**Slope range**: 6 to 12 percent

**Texture of the surface layer**: Clay loam

**Depth to restrictive feature**: Very deep (more than 60 inches)

**Drainage class**: Moderately well drained

**Parent material**: Glaciofluvial sediments and reworked till over till

**Flooding**: None

**Wet soil moisture status is highest (depth, months)**: 3.6 feet (April)

**Wet soil moisture status is lowest (depth, months)**: More than 6.7 feet (January, February, July, August, September)

**Ponding**: None

**Available water capacity to a depth of 60 inches**: 11.4 inches

**Content of organic matter in the upper 10 inches**: 4 percent

**Typical profile**:
- Ap, A1—0 to 27 inches; loam
- A2, BA—27 to 40 inches; loam
- Bw—40 to 63 inches; loam
- B—63 to 80 inches; loam

**Derrynane**

**Extent**: 2 to 10 percent of the unit

**Geomorphologic setting**: Moraines

**Position on the landform**: Drainageways and swales

**Slope range**: 1 to 3 percent

**Texture of the surface layer**: Clay loam

**Depth to restrictive feature**: Very deep (more than 60 inches)

**Drainage class**: Poorly drained

**Parent material**: Colluvium or glaciofluvial sediments over till

**Flooding**: None

**Wet soil moisture status is highest (depth, months)**: 0.5 foot (April, May)

**Wet soil moisture status is lowest (depth, months)**: 2.6 feet (February, August)

**Ponding**: None

**Available water capacity to a depth of 60 inches**: 10 inches

**Content of organic matter in the upper 10 inches**: 6 percent

**Typical profile**:
- Ap, A1—0 to 19 inches; clay loam
- A2—19 to 39 inches; silty clay
- Bg, 2Bg—39 to 65 inches; clay loam
- 2Cg—65 to 80 inches; loam

**Terril**

**Extent**: 5 to 15 percent of the unit

**Geomorphologic setting**: Hills on moraines

**Position on the landform**: Footslopes

**Slope range**: 0 to 4 percent

**Texture of the surface layer**: Loam

**Depth to restrictive feature**: Very deep (more than 60 inches)

**Drainage class**: Moderately well drained

**Parent material**: Colluvium over till

**Flooding**: None

**Wet soil moisture status is highest (depth, months)**: 3.6 feet (April)

**Wet soil moisture status is lowest (depth, months)**: More than 6.7 feet (January, February, July, August, September)

**Ponding**: None

**Available water capacity to a depth of 60 inches**: 11.4 inches

**Content of organic matter in the upper 10 inches**: 4 percent

**Typical profile**:
- Ap, A1—0 to 27 inches; loam
- A2, BA—27 to 40 inches; loam
- Bw—40 to 63 inches; loam
- B—63 to 80 inches; loam

**L41D2—Lester-Kilkenny complex, 12 to 18 percent slopes, eroded**

**Component Description**

**Lester, eroded, and similar soils**

**Extent**: 40 to 50 percent of the unit

**Geomorphologic setting**: Hills on moraines
Position on the landform: Shoulders and backslopes
Slope range: 12 to 18 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
  Ap—0 to 7 inches; loam
  Bt—7 to 38 inches; clay loam
  Bk—38 to 60 inches; loam
  C—60 to 80 inches; loam

Kilkenny, eroded, and similar soils
Extent: 25 to 45 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and shoulders
Slope range: 12 to 18 percent
Texture of the surface layer: Clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 6.7 feet (January, February, March, June, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 10.3 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
  Ap,A1—0 to 27 inches; loam
  A2,BA—27 to 40 inches; loam
  Bw—40 to 63 inches; loam
  C—63 to 80 inches; loam

Terril
Extent: 5 to 15 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 0 to 4 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
  Ap—0 to 9 inches; clay loam
  Bt—9 to 53 inches; clay loam
  2BC,2C—53 to 80 inches; loam

Derrynane
Extent: 2 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Drainageways and swales
Slope range: 1 to 3 percent
Texture of the surface layer: Clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium or glaciofluvial sediments over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.6 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
  Ap,A1—0 to 19 inches; clay loam
  A2—19 to 39 inches; silty clay
  Bg,2Bg—39 to 65 inches; clay loam
  2Cg—65 to 80 inches; loam

Ridgeton
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 8 to 14 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.2 inches
Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
- Ap,A1—0 to 23 inches; loam
- A2,AB—23 to 38 inches; loam
- Bw—38 to 50 inches; loam
- C—50 to 80 inches; loam

L41E—Lester-Kilkenny complex, 18 to 25 percent slopes

Component Description

Lester and similar soils
Extent: 40 to 50 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and shoulders
Slope range: 18 to 25 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
- A—0 to 5 inches; loam
- BE,Bt—5 to 34 inches; clay loam
- Bk—34 to 60 inches; loam
- C—60 to 80 inches; loam

Kilkenny and similar soils
Extent: 35 to 45 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and shoulders
Slope range: 18 to 25 percent
Texture of the surface layer: Clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
- More than 6.7 feet (January, February, March, June, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 2.7 percent

Typical profile:
- A—0 to 7 inches; clay loam
- Bt—7 to 31 inches; clay loam
- 2Bk,2C—31 to 80 inches; loam

Terril
Extent: 5 to 15 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 0 to 4 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months):
- More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
- A1,A2—0 to 24 inches; loam
- AB—24 to 37 inches; loam
- Bw—37 to 57 inches; loam
- C—57 to 80 inches; loam

Derrynane
Extent: 2 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Drainageways and swales
Slope range: 1 to 3 percent
Texture of the surface layer: Clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium or glaciofluvial sediments over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months): 2.6 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 10 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
A1—0 to 20 inches; clay loam
A2—20 to 40 inches; clay loam
Btg—40 to 54 inches; clay loam
2Cg—54 to 80 inches; loam

Ridgeton
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 10 to 20 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
A—0 to 5 inches; loam
BE,Bt—5 to 34 inches; clay loam
Bk—34 to 60 inches; loam
C—60 to 80 inches; loam

Kilkenny and similar soils
Extent: 25 to 45 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Shoulders and summits
Slope range: 25 to 35 percent
Texture of the surface layer: Clay loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments and reworked till over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
More than 6.7 feet (January, February, March, June, July, August, September, October, November, December)
Ponding: None
Available water capacity to a depth of 60 inches: 10.2 inches
Content of organic matter in the upper 10 inches: 3.7 percent
Typical profile:
A—0 to 7 inches; clay loam
Bt—7 to 31 inches; clay loam
2Bk,2C—31 to 80 inches; loam

L41F—Lester-Kilkenny complex, 25 to 35 percent slopes

Component Description
Lester and similar soils
Extent: 40 to 50 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Backslopes and shoulders
Slope range: 25 to 35 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
A—0 to 5 inches; loam
BE,Bt—5 to 34 inches; clay loam
Bk—34 to 60 inches; loam
C—60 to 80 inches; loam

Ridgeton
Extent: 0 to 20 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Backslopes and footslopes
Slope range: 18 to 25 percent
Texture of the surface layer: Loam
Terril

Extent: 5 to 15 percent of the unit  
Geomorphic setting: Escarpments on moraines  
Position on the landform: Footslopes  
Slope range: 0 to 4 percent  
Texture of the surface layer: Loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Moderately well drained  
Parent material: Colluvium over till  
Flooding: None  
Wet soil moisture status is highest (depth, months):  
3.6 feet (April)  
Wet soil moisture status is lowest (depth, months):  
More than 6.7 feet (January, February, July, August, September)  
Ponding: None  
Available water capacity to a depth of 60 inches: 11.3 inches  
Content of organic matter in the upper 10 inches: 4 percent  
Typical profile:  
A1, A2, A3—0 to 32 inches; loam  
Bw—32 to 40 inches; loam  
C1, C2—40 to 80 inches; loam

Derrynane

Extent: 2 to 10 percent of the unit  
Geomorphic setting: Escarpments on moraines  
Position on the landform: Torslopes  
Slope range: 1 to 3 percent  
Texture of the surface layer: Clay loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Poorly drained

Parent material: Colluvium or glaciofluvial sediments over till  
Flooding: None  
Wet soil moisture status is highest (depth, months):  
0.5 foot (April, May)  
Wet soil moisture status is lowest (depth, months): 2.6 feet (February, August)  
Ponding: None  
Available water capacity to a depth of 60 inches: 10 inches  
Content of organic matter in the upper 10 inches: 6 percent  
Typical profile:  
A1—0 to 20 inches; clay loam  
A2—20 to 40 inches; clay loam  
Btg—40 to 54 inches; clay loam  
2Cg—54 to 80 inches; loam

L42B—Kingsley-Gotham complex, 2 to 6 percent slopes

Component Description

Kingsley and similar soils

Extent: 60 to 85 percent of the unit  
Geomorphic setting: Hills on moraines  
Position on the landform: Summits and backslopes  
Slope range: 2 to 6 percent  
Texture of the surface layer: Sandy loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Well drained  
Parent material: Till  
Flooding: None  
Depth to wet soil moisture status: More than 5 feet all year  
Ponding: None  
Available water capacity to a depth of 60 inches: 8.2 inches  
Content of organic matter in the upper 10 inches: 2.2 percent  
Typical profile:  
A—0 to 7 inches; sandy loam  
E—7 to 14 inches; sandy loam  
Bt—14 to 34 inches; sandy loam  
C—34 to 60 inches; sandy loam

Gotham and similar soils

Extent: 20 to 35 percent of the unit  
Geomorphic setting: Hills on moraines  
Position on the landform: Summits and shoulders  
Slope range: 2 to 6 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Glaciofluvial sediments
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 1 percent

Typical profile:
A—0 to 9 inches; loamy sand
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand

Grays
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
A—0 to 7 inches; very fine sandy loam
Bt—7 to 25 inches; silt loam
C—25 to 60 inches; stratified very fine sandy loam to silt loam

L42C—Kingsley-Gotham complex, 6 to 12 percent slopes

Component Description
Kingsley and similar soils
Extent: 60 to 85 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 2.2 percent
Typical profile:
A—0 to 7 inches; sandy loam
E—7 to 14 inches; sandy loam
Bt—14 to 34 inches; sandy loam
C—34 to 60 inches; sandy loam

Gotham and similar soils
Extent: 20 to 35 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Glaciofluvial sediments
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 1 percent
Typical profile:
A—0 to 9 inches; loamy sand
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand

Grays
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
A—0 to 7 inches; very fine sandy loam
Bt—7 to 25 inches; silt loam
C—25 to 60 inches; stratified very fine sandy loam to silt loam

L42D—Kingsley-Gotham complex, 12 to 18 percent slopes

Component Description

Kingsley and similar soils
Extent: 60 to 85 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 12 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 2.2 percent
Typical profile:
A—0 to 9 inches; loamy sand
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand

Grays
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
A—0 to 7 inches; very fine sandy loam
Bt—7 to 25 inches; silt loam
C—25 to 60 inches; stratified very fine sandy loam to silt loam

L42E—Kingsley-Gotham complex, 12 to 25 percent slopes

Component Description

Kingsley and similar soils
Extent: 20 to 35 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and shoulders
Slope range: 12 to 18 percent
Texture of the surface layer: Loamy sand
Hennepin County, Minnesota

Position on the landform: Summits and backslopes
Slope range: 18 to 25 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 3.7 percent
Typical profile:
A—0 to 7 inches; sandy loam
E—7 to 14 inches; sandy loam
Bt—14 to 34 inches; sandy loam
C—34 to 60 inches; sandy loam

Gotham and similar soils
Extent: 20 to 35 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 18 to 25 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Glaciofluvial sediments
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 1 percent
Typical profile:
A—0 to 9 inches; loamy sand
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand

Grays
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
A—0 to 7 inches; very fine sandy loam
Bt—7 to 25 inches; silt loam
C—25 to 60 inches; stratified very fine sandy loam to silt loam

L42F—Kingsley-Gotham complex, 25 to 35 percent slopes
Component Description

Kingsley and similar soils
Extent: 60 to 85 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Backslopes and shoulders
Slope range: 25 to 35 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Glaciofluvial sediments
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 3.7 percent
Typical profile:
A—0 to 7 inches; sandy loam
E—7 to 14 inches; sandy loam
Bt—14 to 34 inches; sandy loam
C—34 to 60 inches; sandy loam

Gotham and similar soils
Extent: 20 to 35 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Shoulders and summits
Slope range: 25 to 35 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Glaciofluvial sediments
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 1 percent

Typical profile:
A—0 to 9 inches; loamy sand
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand

Grays
Extent: 0 to 10 percent of the unit
Geomorphic setting: Escarpments
Position on the landform: Footslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Glaciofluvial sediments
Flooding: None
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:
  Ap—0 to 14 inches; loam
  A—14 to 36 inches; loam
  Bg—36 to 44 inches; loam
  Cg—44 to 60 inches; stratified loamy very fine sand to silt loam

Minneiska, occasionally flooded
Extent: 5 to 15 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Slight rises
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very sandy loam
Drainage class: Moderately well drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 9.7 inches
Content of organic matter in the upper 10 inches: 3.5 percent

Typical profile:
  Ap—0 to 10 inches; fine sandy loam
  C—10 to 60 inches; stratified sand to silt loam

Component Description
Brouillett, occasionally flooded, and similar soils
Extent: 70 to 90 percent of the unit
Geomorphic setting: Flood plains
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (February)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 4.5 percent

Typical profile:
  Ap—0 to 14 inches; loam
  A—14 to 36 inches; loam
  Bg—36 to 44 inches; loam
  Cg—44 to 60 inches; stratified loamy very fine sand to silt loam

L43A—Brouillett loam, 0 to 2 percent slopes, occasionally flooded
Rushriver, occasionally flooded

Extent: 5 to 10 percent of the unit
Geomorph setting: Flood plains
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Very fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Alluvium
Flooding does not occur (months): January, February, September, October, November, December
Flooding is most likely (frequency, months):
  Occasional (March, April, May, June, July, August)
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 2.3 feet (September)
Ponding: None
Available water capacity to a depth of 60 inches: 8 inches
Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:
  A—0 to 46 inches; very fine sandy loam
  C—46 to 80 inches; stratified coarse sand to silt loam

L44A—Nessel loam, 1 to 3 percent slopes

Component Description

Nessel and similar soils

Extent: 75 to 90 percent of the unit
Geomorph setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:
  Ap—0 to 6 inches; loam
  Bt—6 to 38 inches; clay loam
  C—38 to 80 inches; loam

Cordova

Extent: 5 to 15 percent of the unit
Geomorph setting: Moraines
Position on the landform: Flats and swales
Slope range: 0 to 2 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months):
  0.5 foot (April, May)
Wet soil moisture status is lowest (depth, months):
  More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.6 inches
Content of organic matter in the upper 10 inches: 5.5 percent

Typical profile:
  Ap,AB—0 to 13 inches; loam
  Btg—13 to 33 inches; clay loam
  Cg—33 to 80 inches; loam

Angus

Extent: 0 to 10 percent of the unit
Geomorph setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 2 to 5 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months):
  3.6 feet (April)
Wet soil moisture status is lowest (depth, months):
  More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:
  Ap—0 to 8 inches; loam
  Bt—8 to 35 inches; clay loam
BC—35 to 40 inches; clay loam
C—40 to 80 inches; loam

L45A—Dundas-Cordova complex, 0 to 3 percent slopes

**Component Description**

**Dundas and similar soils**

- **Extent:** 50 to 75 percent of the unit
- **Geomorphic setting:** Moraines
- **Position on the landform:** Flats
- **Slope range:** 1 to 3 percent
- **Texture of the surface layer:** Silt loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Somewhat poorly drained
- **Parent material:** Till
- **Flooding:** None
- **Wet soil moisture status is highest (depth, months):** 1.5 feet (April)
- **Wet soil moisture status is lowest (depth, months):** More than 6.7 feet (August)
- **Ponding:** None
- **Available water capacity to a depth of 60 inches:** 10.7 inches
- **Content of organic matter in the upper 10 inches:** 2.8 percent
- **Typical profile:**
  - Ap—0 to 9 inches; silt loam
  - E—9 to 15 inches; loam
  - Btg—15 to 40 inches; clay loam
  - Cg—40 to 80 inches; loam

**Cordova and similar soils**

- **Extent:** 15 to 30 percent of the unit
- **Geomorphic setting:** Moraines
- **Position on the landform:** Flats and swales
- **Slope range:** 0 to 2 percent
- **Texture of the surface layer:** Loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Poorly drained
- **Parent material:** Till
- **Flooding:** None
- **Wet soil moisture status is highest (depth, months):** At the surface (April, May, June)
- **Wet soil moisture status is lowest (depth, months):** 1.5 feet (February)
- **Ponding does not occur (months):** January, February, July, August, September, October, November, December
- **Ponding is deepest (depth, months):** 1 foot (March, April, May)
- **Available water capacity to a depth of 60 inches:** 10.6 inches

**Nessel**

- **Extent:** 0 to 10 percent of the unit
- **Geomorphic setting:** Moraines
- **Position on the landform:** Slight rises
- **Slope range:** 1 to 3 percent
- **Texture of the surface layer:** Loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Moderately well drained
- **Parent material:** Till
- **Flooding:** None
- **Wet soil moisture status is highest (depth, months):** 2.5 feet (April)
- **Wet soil moisture status is lowest (depth, months):** More than 6.7 feet (January, February, July, August, September)
- **Ponding:** None
- **Available water capacity to a depth of 60 inches:** 10.4 inches
- **Content of organic matter in the upper 10 inches:** 1.5 percent
- **Typical profile:**
  - Ap—0 to 6 inches; loam
  - Bt—6 to 38 inches; clay loam
  - C—38 to 80 inches; loam

**Glencoe**

- **Extent:** 0 to 10 percent of the unit
- **Geomorphic setting:** Moraines
- **Position on the landform:** Depressions
- **Slope range:** 0 to 1 percent
- **Texture of the surface layer:** Loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Very poorly drained
- **Parent material:** Till
- **Flooding:** None
- **Wet soil moisture status is highest (depth, months):** At the surface (April, May, June)
- **Wet soil moisture status is lowest (depth, months):** 1.5 feet (February)
- **Ponding does not occur (months):** January, February, July, August, September, October, November, December
- **Ponding is deepest (depth, months):** 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent
**Typical profile:**
- Ap—0 to 13 inches; loam
- A,Bg1—13 to 31 inches; clay loam
- Bg2—31 to 45 inches; loam
- Cg—45 to 80 inches; loam

**L46A—Tomall loam, 0 to 2 percent slopes**

**Component Description**

**Tomall and similar soils**

- **Extent:** 70 to 100 percent of the unit
- **Geomorphic setting:** Stream terraces and outwash plains
- **Position on the landform:** Swales
- **Slope range:** 0 to 2 percent
- **Texture of the surface layer:** Loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Well drained
- **Parent material:** Colluvium over outwash
- **Flooding:** None
- **Wet soil moisture status is highest (depth, months):** 4 feet (April, May)
- **Wet soil moisture status is lowest (depth, months):** More than 6.7 feet (January, February, March, July, August, September, October, November, December)
- **Ponding:** None
- **Available water capacity to a depth of 60 inches:** 9.5 inches
- **Content of organic matter in the upper 10 inches:** 6 percent
- **Typical profile:**
  - Ap,A,AB—0 to 33 inches; loam
  - Bw—33 to 42 inches; sandy loam
  - 2Bw—42 to 47 inches; loamy coarse sand
  - 2C—47 to 80 inches; gravelly loamy coarse sand

**Malardi**

- **Extent:** 0 to 20 percent of the unit
- **Geomorphic setting:** Outwash plains and stream terraces
- **Position on the landform:** Swales
- **Slope range:** 0 to 3 percent
- **Texture of the surface layer:** Sandy loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Somewhat excessively drained
- **Parent material:** Outwash
- **Flooding:** None
- **Depth to wet soil moisture status:** More than 6.7 feet all year
- **Ponding:** None
- **Available water capacity to a depth of 60 inches:** 4.3 inches
- **Content of organic matter in the upper 10 inches:** 3 percent
- **Typical profile:**
  - Ap,A—0 to 15 inches; sandy loam
  - Bt—15 to 28 inches; sandy loam
  - 2BC—28 to 36 inches; loamy sand
  - 2C—36 to 80 inches; sand

**Rasset**

- **Extent:** 0 to 20 percent of the unit
- **Geomorphic setting:** Outwash plains and stream terraces
- **Position on the landform:** Swales
- **Slope range:** 0 to 3 percent
- **Texture of the surface layer:** Sandy loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Well drained
- **Parent material:** Outwash

**L47A—Eden Prairie sandy loam, 0 to 2 percent slopes**

**Component Description**

**Eden Prairie and similar soils**

- **Extent:** 80 to 100 percent of the unit
- **Geomorphic setting:** Stream terraces and outwash plains
- **Position on the landform:** Flats
- **Slope range:** 0 to 2 percent
- **Texture of the surface layer:** Sandy loam
- **Depth to restrictive feature:** Very deep (more than 60 inches)
- **Drainage class:** Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
  Ap—0 to 10 inches; sandy loam
  Bt—10 to 16 inches; sandy loam
  2Bt—16 to 26 inches; loamy sand
  2Bw,2C1,2C2—26 to 80 inches; sand

Malardi
Extent: 0 to 20 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Flats
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
  Ap—0 to 10 inches; sandy loam
  Bt—10 to 15 inches; sandy loam
  2Bt—15 to 29 inches; loamy coarse sand
  2C—29 to 80 inches; gravelly sand

Rasset
Extent: 0 to 10 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 0 to 2 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year

L47B—Eden Prairie sandy loam, 2 to 6 percent slopes
Component Description
Eden Prairie and similar soils
Extent: 75 to 95 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Summits and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
  Ap—0 to 10 inches; sandy loam
  Bt—10 to 16 inches; sandy loam
  2Bt—16 to 26 inches; loamy sand
  2Bw,2C1,2C2—26 to 80 inches; sand

Malardi
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
- Ap—0 to 10 inches; sandy loam
- Bt—10 to 15 inches; sandy loam
- 2Bt—15 to 29 inches; loamy coarse sand
- 2C—29 to 80 inches; gravelly sand

Rasset
Extent: 5 to 15 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 1 to 3 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
- Ap—0 to 10 inches; sandy loam
- Bt—10 to 15 inches; sandy loam
- 2Bt—15 to 29 inches; loamy coarse sand
- 2C—29 to 80 inches; gravelly sand

Malardi
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Summits and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
- Ap—0 to 10 inches; sandy loam
- Bt—10 to 15 inches; sandy loam
- 2Bt—15 to 29 inches; loamy coarse sand
- 2Bw,2C1,2C2—26 to 80 inches; sand

L47C—Eden Prairie sandy loam, 6 to 12 percent slopes

Component Description

Eden Prairie and similar soils
Extent: 60 to 85 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Backslopes and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
- Ap—0 to 10 inches; sandy loam
- Bt—10 to 15 inches; sandy loam
- 2Bt—15 to 29 inches; loamy coarse sand
- 2C—29 to 80 inches; gravelly sand

Rasset
Extent: 5 to 15 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Swales
Slope range: 1 to 3 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
- Ap—0 to 10 inches; sandy loam
- Bt—10 to 15 inches; sandy loam
- 2Bt—15 to 29 inches; loamy coarse sand
- 2C—29 to 80 inches; gravelly sand
Ponding: None
Available water capacity to a depth of 60 inches: 6.1 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
Ap, A—0 to 15 inches; sandy loam
Bt—15 to 28 inches; sandy loam
2BC—28 to 36 inches; loamy sand
2C—36 to 80 inches; sand

Hawick
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on stream terraces; hills on outwash plains
Position on the landform: Backslopes and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.2 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
Ap—0 to 7 inches; sandy loam
Bw—7 to 11 inches; gravelly loamy coarse sand
C—11 to 80 inches; gravelly coarse sand

L49A—Klossner soils, depressional, 0 to 1 percent slopes

Component Description
Klossner, surface drained, and similar soils
Extent: 50 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (April, May, June)
Wet soil moisture status is lowest (depth, months): 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 17.4 inches
Content of organic matter in the upper 10 inches: 42.5 percent
Typical profile:
Oa—0 to 26 inches; muck
2A1—26 to 33 inches; silt loam
2A2—33 to 40 inches; loam
2Cg—40 to 80 inches; loam

Klossner, drained, and similar soils
Extent: 0 to 40 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Muck
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Organic material over till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 17.7 inches
Content of organic matter in the upper 10 inches: 50 percent
Typical profile:
Op, Oa—0 to 26 inches; muck
2A1—26 to 36 inches; mucky silty clay loam
2A2—36 to 48 inches; silty clay loam
2Cg—48 to 80 inches; loam

Mineral soil, drained
Extent: 5 to 25 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
**Drainage class:** Very poorly drained  
**Parent material:** Till  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** At the surface (March, April)  
**Wet soil moisture status is lowest (depth, months):** 2 feet (February, August)  
**Ponding does not occur (months):** January, February, May, June, July, August, September, October, November, December  
**Ponding is deepest (depth, months):** 1 foot (April)  
**Available water capacity to a depth of 60 inches:** 11.1 inches  
**Content of organic matter in the upper 10 inches:** 7.5 percent  

**Typical profile:**  
Ap—0 to 13 inches; loam  
A,Bg1—13 to 31 inches; clay loam  
Bg2—31 to 45 inches; clay loam  
Cg—45 to 80 inches; loam

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**L50A—Houghton and Muskego soils, depressional, 0 to 1 percent slopes**

**Component Description**

**Houghton, surface drained, and similar soils**  
**Extent:** 20 to 60 percent of the unit  
**Geomorphic setting:** Moraines  
**Position on the landform:** Depressions  
**Slope range:** 0 to 1 percent  
**Texture of the surface layer:** Muck  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Very poorly drained  
**Parent material:** Organic material  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** At the surface (April, May, June)  
**Wet soil moisture status is lowest (depth, months):** 1.5 feet (February)  
**Ponding does not occur (months):** January, February, July, August, September, October, November, December  
**Ponding is deepest (depth, months):** 1 foot (March, April, May)  
**Available water capacity to a depth of 60 inches:** 19.4 inches  
**Content of organic matter in the upper 10 inches:** 75 percent  

**Typical profile:**  
Oa1—0 to 9 inches; muck  
Oa2—9 to 36 inches; muck  
Lco—36 to 60 inches; coprogenous earth

**Muskego, surface drained, and similar soils**  
**Extent:** 20 to 60 percent of the unit  
**Geomorphic setting:** Moraines  
**Position on the landform:** Depressions  
**Slope range:** 0 to 1 percent  
**Texture of the surface layer:** Muck  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Very poorly drained  
**Parent material:** Organic material over coprogenous earth  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** At the surface (April, May, June)  
**Wet soil moisture status is lowest (depth, months):** 1.5 feet (February)  
**Ponding does not occur (months):** January, February, July, August, September, October, November, December  
**Ponding is deepest (depth, months):** 1 foot (March, April, May)  
**Available water capacity to a depth of 60 inches:** 17.7 inches  

**Typical profile:**  
Oa1—0 to 9 inches; muck  
Oa2—9 to 36 inches; muck  
Lco—36 to 60 inches; coprogenous earth

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**Klossner, drained**  
**Extent:** 0 to 20 percent of the unit  
**Geomorphic setting:** Moraines  
**Position on the landform:** Depressions  
**Slope range:** 0 to 1 percent  
**Texture of the surface layer:** Muck  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Very poorly drained  
**Parent material:** Organic material over till  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** At the surface (March, April)  
**Wet soil moisture status is lowest (depth, months):** 2 feet (February, August)  
**Ponding does not occur (months):** January, February, May, June, July, August, September, October, November, December  
**Ponding is deepest (depth, months):** 1 foot (April)  
**Available water capacity to a depth of 60 inches:** 17.7 inches
Content of organic matter in the upper 10 inches: 50 percent

Typical profile:
Op, Oa—0 to 26 inches; muck
2A1—26 to 36 inches; mucky silt clay loam
2A2—36 to 48 inches; silty clay loam
2Cg—48 to 80 inches; loam

Mineral soil, drained

Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 11.1 inches

Content of organic matter in the upper 10 inches: 7.5 percent

Typical profile:
Ap—0 to 7 inches; loam
Bt—7 to 38 inches; clay loam
Bk—38 to 60 inches; loam
Cg—45 to 80 inches; loam

L52C—Urban land-Lester complex, 2 to 18 percent slopes

Component Description

Urban land

Extent: 35 to 80 percent of the unit
Geomorphic setting: Moraines
Slope range: 2 to 18 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Lester and similar soils

Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and shoulders
Slope range: 6 to 18 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches

Kingsley

Extent: 0 to 5 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 5 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches

Content of organic matter in the upper 10 inches: 2.2 percent

Typical profile:
A—0 to 7 inches; sandy loam
E—7 to 14 inches; sandy loam
Bt—14 to 34 inches; sandy loam
C—34 to 60 inches; sandy loam
L52E—Urban land-Lester complex, 18 to 35 percent slopes

Component Description

Urban land

Extent: 35 to 80 percent of the unit
Geomorphic setting: Moraines
Slope range: 18 to 35 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Lester and similar soils

Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and backslopes
Slope range: 18 to 35 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
  A—0 to 5 inches; loam
  BE,Bt—5 to 34 inches; clay loam
  Bk—34 to 60 inches; loam
  C—60 to 80 inches; loam

Kingsley

Extent: 0 to 5 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 18 to 35 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained

Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 3.7 percent
Typical profile:
  A—0 to 7 inches; sandy loam
  E—7 to 14 inches; sandy loam
  Bt—14 to 34 inches; sandy loam
  C—34 to 60 inches; sandy loam

L53B—Urban land-Moon complex, 2 to 8 percent slopes

Component Description

Urban land

Extent: 35 to 80 percent of the unit
Geomorphic setting: Moraines
Slope range: 2 to 8 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Moon and similar soils

Extent: 15 to 25 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 2 to 5 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
   Ap—0 to 8 inches; loamy fine sand
   E—8 to 24 inches; loamy fine sand
   2Bt—24 to 46 inches; sandy clay loam
   2C—46 to 60 inches; loam

Lester
Extent: 0 to 15 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and shoulders
Slope range: 6 to 8 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
   Ap—0 to 7 inches; loam
   Bt—7 to 38 inches; clay loam
   Bk—38 to 60 inches; loam
   C—60 to 80 inches; loam

L54A—Urban land-Dundas complex, 0 to 3 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Moraines
Slope range: 0 to 3 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Dundas and similar soils
Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats
Slope range: 0 to 3 percent
Texture of the surface layer: Silt loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (August)
Ponding: None
Available water capacity to a depth of 60 inches: 10.7 inches
Content of organic matter in the upper 10 inches: 2.8 percent
Typical profile:
   Ap—0 to 9 inches; silt loam
   E—9 to 15 inches; loam
   Btg—15 to 40 inches; clay loam
   Cg—40 to 80 inches; loam

Nessel
Extent: 0 to 15 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
   Ap—0 to 6 inches; loam
   Bt—6 to 38 inches; clay loam
   C—38 to 80 inches; loam
L55B—Urban land-Malardi complex, 0 to 8 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Stream terraces and outwash plains
Slope range: 0 to 8 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Malardi and similar soils
Extent: 0 to 20 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Summits and backslopes
Slope range: 2 to 8 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
  Ap—0 to 10 inches; sandy loam
  Bt—15 to 28 inches; sandy loam
  2BC—28 to 36 inches; loamy sand
  2C—36 to 80 inches; sand

Eden Prairie
Extent: 0 to 5 percent of the unit
Geomorphic setting: Hills on outwash plains; hills on stream terraces
Position on the landform: Backslopes and summits
Slope range: 0 to 8 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
  Ap—0 to 10 inches; sandy loam
  Bt—10 to 16 inches; sandy loam
  2Bt—16 to 26 inches; loamy sand
  2Bw,2C1,2C2—26 to 80 inches; sand

L55C—Urban land-Malardi complex, 8 to 18 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphic setting: Outwash plains and stream terraces
Position on the landform: Swales
Slope range: 1 to 3 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
**General description:** Urban land consists mainly of residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

**Malardi and similar soils**

*Extent:* 0 to 20 percent of the unit  
*Geomorphic setting:* Hills on outwash plains; hills on stream terraces  
*Position on the landform:* Backslopes and summits  
*Slope range:* 8 to 18 percent  
*Texture of the surface layer:* Sandy loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Somewhat excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 4.3 inches  
*Content of organic matter in the upper 10 inches:* 3 percent  
*Typical profile:*  
  Ap—0 to 10 inches; sandy loam  
  Bt—10 to 15 inches; sandy loam  
  2Bt—15 to 29 inches; loamy coarse sand  
  2C—29 to 80 inches; gravelly sand

**Hawick**

*Extent:* 0 to 10 percent of the unit  
*Geomorphic setting:* Hills on stream terraces; hills on outwash plains  
*Position on the landform:* Shoulders  
*Slope range:* 8 to 18 percent  
*Texture of the surface layer:* Sandy loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 3.2 inches  
*Content of organic matter in the upper 10 inches:* 1.9 percent  
*Typical profile:*  
  Ap—0 to 7 inches; sandy loam  
  Bw—7 to 11 inches; gravelly loamy coarse sand  
  C—11 to 80 inches; gravelly coarse sand

**Crowfork**

*Extent:* 0 to 5 percent of the unit  
*Geomorphic setting:* Hills on outwash plains; hills on stream terraces  
*Position on the landform:* Summits and backslopes  
*Slope range:* 8 to 18 percent  
*Texture of the surface layer:* Loamy sand  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Excessively drained  
*Parent material:* Outwash  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 5.6 inches  
*Content of organic matter in the upper 10 inches:* 2 percent  
*Typical profile:*  
  Ap—0 to 11 inches; loamy sand  
  E—11 to 20 inches; loamy fine sand  
  E&Bt—20 to 76 inches; loamy sand  
  C—76 to 80 inches; sand

**L56A—Muskego and Klossner soils, 0 to 1 percent slopes, frequently flooded**

**Component Description**

**Muskego, frequently flooded, and similar soils**

*Extent:* 30 to 100 percent of the unit  
*Geomorphic setting:* Flood plains  
*Position on the landform:* Flats  
*Slope range:* 0 to 1 percent  
*Texture of the surface layer:* Muck  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Very poorly drained  
*Parent material:* Organic material over coprogenous earth  
*Flooding does not occur (months):* January, February, August, September, October, November, December  
*Flooding is most likely (frequency, months):* Frequent (March, April, May, June)  
*Wet soil moisture status is highest (depth, months):* At the surface (April, May, June)  
*Wet soil moisture status is lowest (depth, months):* 1.5 feet (February)
Ponding does not occur (months): January, February, July, August, September, October, November, December

Ponding is deepest (depth, months): 1 foot (March, April, May)

Available water capacity to a depth of 60 inches: 19.4 inches

Content of organic matter in the upper 10 inches: 75 percent

Typical profile:
- Oa1—0 to 9 inches; muck
- Oa2—9 to 36 inches; muck
- Lco—36 to 60 inches; coprogenous earth

Klossner, frequently flooded, and similar soils

Extent: 30 to 100 percent of the unit

Geomorphic setting: Flood plains

Position on the landform: Flats

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic material over till

Flooding does not occur (months): January, February, August, September, October, November, December

Flooding is most likely (frequency, months): Frequent (March, April, May, June)

Wet soil moisture status is highest (depth, months): At the surface (April, May, June)

Wet soil moisture status is lowest (depth, months): 1.5 feet (February)

Ponding: None

Available water capacity to a depth of 60 inches: 9.9 inches

Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
- A—0 to 22 inches; loam
- Cg—22 to 80 inches; loamy fine sand

L58B—Koronis-Kingsley complex, 2 to 6 percent slopes

Component Description

Koronis and similar soils

Extent: 50 to 85 percent of the unit

Geomorphic setting: Hills on moraines

Position on the landform: Summits and backslopes

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Till

Flooding: None

Depth to wet soil moisture status: More than 5 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 9.7 inches

Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:
- Ap—0 to 10 inches; sandy loam
- Bt—10 to 30 inches; sandy clay loam
- Bk—30 to 60 inches; loam

Kingsley and similar soils

Extent: 20 to 35 percent of the unit

Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes  
Slope range: 2 to 6 percent  
Texture of the surface layer: Sandy loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Well drained  
Parent material: Till  
Flooding: None  
Depth to wet soil moisture status: More than 5 feet all year  
Ponding: None  
Available water capacity to a depth of 60 inches: 8.2 inches  
Content of organic matter in the upper 10 inches: 2.2 percent  
Typical profile:  
Ap—0 to 7 inches; sandy loam  
E—7 to 14 inches; sandy loam  
Bt—14 to 34 inches; sandy loam  
C—34 to 60 inches; sandy loam

Forestcity  
Extent: 0 to 20 percent of the unit  
Geomorphic setting: Moraines  
Position on the landform: Swales and drainageways  
Slope range: 0 to 2 percent  
Texture of the surface layer: Fine sandy loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Poorly drained  
Parent material: Colluvium over till  
Flooding: None  
Wet soil moisture status is highest (depth, months): 0.5 foot (April)  
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)  
Ponding: None  
Available water capacity to a depth of 60 inches: 8.9 inches  
Content of organic matter in the upper 10 inches: 6 percent  
Typical profile:  
Ap,A1—0 to 22 inches; fine sandy loam  
A2,AB—22 to 36 inches; loam  
2Btg—36 to 60 inches; sandy clay loam  
2Cg—60 to 80 inches; sandy loam

L58C2—Koronis-Kingsley complex, 6 to 12 percent slopes, eroded  
Component Description  
Koronis, eroded, and similar soils  
Extent: 50 to 85 percent of the unit  
Geomorphic setting: Hills on moraines  
Position on the landform: Summits and backslopes  
Slope range: 6 to 12 percent  
Texture of the surface layer: Sandy loam  
Depth to restrictive feature: Very deep (more than 60 inches)  
Drainage class: Well drained  
Parent material: Till  
Flooding: None  
Depth to wet soil moisture status: More than 5 feet all year  
Ponding: None  
Available water capacity to a depth of 60 inches: 9.7 inches  
Content of organic matter in the upper 10 inches: 2 percent  
Typical profile:  
Ap,A1—0 to 10 inches; sandy loam  
Bt—9 to 18 inches; loamy sand  
Bw,BC—18 to 40 inches; sand  
C—40 to 80 inches; sand

Kingsley, eroded, and similar soils  
Extent: 20 to 35 percent of the unit  
Geomorphic setting: Hills on moraines  
Position on the landform: Summits and backslopes  
Slope range: 6 to 12 percent  
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 1 percent
Typical profile:
Ap—0 to 7 inches; sandy loam
E—7 to 14 inches; sandy loam
Bt—14 to 34 inches; sandy loam
C—34 to 60 inches; sandy loam

Forest City
Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A1—0 to 22 inches; fine sandy loam
A2,AB—22 to 36 inches; loam
2Btg—36 to 60 inches; sandy clay loam
2Cg—60 to 80 inches; sandy loam

L58D2—Koronis-Kingsley complex, 12 to 18 percent slopes, eroded

Component Description
Koronis, eroded, and similar soils
Extent: 50 to 85 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 12 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 9.7 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand

Kingsley, eroded, and similar soils
Extent: 20 to 35 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 12 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None

Gotham
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and shoulders
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Glaciofluvial sediments
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 1 percent
Typical profile:
Ap—0 to 9 inches; loamy sand
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
Ap—0 to 7 inches; sandy loam
E—7 to 14 inches; sandy loam
Bt—14 to 34 inches; sandy loam
C—34 to 60 inches; sandy loam

Forestcity
Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A1—0 to 22 inches; fine sandy loam
A2,AB—22 to 36 inches; loam
2Btg—36 to 60 inches; sandy clay loam
2Cg—60 to 80 inches; sandy loam

Gotham
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and shoulders
Slope range: 12 to 18 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Glaciofluvial sediments
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 1 percent
Typical profile:
Ap—0 to 9 inches; loamy sand
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand

L58E—Koronis-Kingsley complex, 18 to 25 percent slopes

Component Description

Koronis and similar soils
Extent: 50 to 85 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 18 to 25 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 9.7 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
A—0 to 10 inches; sandy loam
Bt—10 to 30 inches; sandy clay loam
Bk—30 to 60 inches; loam

Kingsley and similar soils
Extent: 20 to 35 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 18 to 25 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 3.7 percent

Typical profile:
A—0 to 7 inches; sandy loam
E—7 to 14 inches; sandy loam
Bt—14 to 34 inches; sandy loam
C—34 to 60 inches; sandy loam

Forestcity
Extent: 0 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
A1—0 to 22 inches; fine sandy loam
A2,AB—22 to 43 inches; loam
2Btg—36 to 60 inches; sandy clay loam
2Cg—60 to 80 inches; sandy loam

Gotham
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 18 to 25 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Glaciofluvial sediments
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 1 percent

Typical profile:
A—0 to 9 inches; loamy sand
Bt—9 to 18 inches; loamy sand
Bw,BC—18 to 40 inches; sand
C—40 to 80 inches; sand

L59A—Forestcity-Lundlake, depressional, complex, 0 to 3 percent slopes

Component Description

Forestcity and similar soils
Extent: 60 to 90 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 0 to 3 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap,A1—0 to 22 inches; fine sandy loam
A2,AB—22 to 43 inches; loam
2Btg—43 to 60 inches; sandy clay loam
2BCg—60 to 80 inches; sandy loam

Lundlake, depressional, and similar soils
Extent: 10 to 40 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February,
May, June, July, August, September, October, November, December

Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A1—0 to 20 inches; loam
A2,A3,AB—20 to 46 inches; loam
Bg—46 to 54 inches; sandy loam
Cg—54 to 60 inches; sandy loam

Marcellon

Extent: 0 to 15 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Flats and slight rises
Slope range: 0 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months):
1.5 feet (April)
Wet soil moisture status is lowest (depth, months):
More than 5 feet (August)
Ponding: None
Available water capacity to a depth of 60 inches: 9.2 inches
Content of organic matter in the upper 10 inches: 2.5 percent
Typical profile:
Ap—0 to 8 inches; loam
Bt—8 to 35 inches; clay loam
BC—35 to 40 inches; clay loam
C—40 to 80 inches; loam

Moon and similar soils

Extent: 20 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and shoulders
Slope range: 2 to 5 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months):
2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap—0 to 8 inches; loamy fine sand
E—8 to 24 inches; loamy fine sand
2Bt—24 to 46 inches; sandy clay loam
2C—46 to 60 inches; loam

Hamel

Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Drainageways and swales
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A,AB—0 to 24 inches; loam
Btg—24 to 46 inches; clay loam
Cg—46 to 80 inches; loam

L61C2—Lester-Metea complex, 6 to 12 percent slopes, eroded

Component Description

Lester, eroded, and similar soils
Extent: 50 to 80 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
Ap—0 to 7 inches; loam
Bt—7 to 38 inches; clay loam
Bk—38 to 60 inches; loam
C—60 to 80 inches; loam

Metea, eroded, and similar soils
Extent: 20 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash over till

Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
Ap—0 to 8 inches; loamy fine sand
E—8 to 24 inches; loamy fine sand
2Bt—24 to 46 inches; sandy clay loam
2C—46 to 60 inches; loam

Terril
Extent: 5 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 0 to 4 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
Ap,A,AB—0 to 27 inches; loam
A2,BA—27 to 40 inches; loam
Bw—40 to 63 inches; loam
C—63 to 80 inches; loam

Hamel
Extent: 0 to 5 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
L61D2—Lester-Metea complex, 12 to 18 percent slopes, eroded

Component Description

Lester, eroded, and similar soils

Extent: 50 to 80 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and shoulders
Slope range: 12 to 18 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A,AB—0 to 24 inches; loam
Btg—24 to 46 inches; clay loam
Cg—46 to 80 inches; loam

Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
Ap—0 to 8 inches; loamy fine sand
E—8 to 24 inches; loamy fine sand
2Bt—24 to 46 inches; sandy clay loam
2C—46 to 60 inches; loam

Metea, eroded, and similar soils

Extent: 20 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 12 to 18 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
Ap,A1—0 to 27 inches; loam
A2,BA—27 to 40 inches; loam
Bw—40 to 63 inches; loam
C—63 to 80 inches; loam

Ridgeton

Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 8 to 14 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.2 inches
Hennepin County, Minnesota

Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
Ap,A1—0 to 23 inches; loam
A2,AB—23 to 38 inches; loam
Bw—38 to 50 inches; loam
C—50 to 80 inches; loam

Hamel
Extent: 0 to 5 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
Ap,A,AB—0 to 24 inches; loam
Btg—24 to 46 inches; clay loam
Cg—46 to 80 inches; loam

L61E—Lester-Metea complex, 18 to 25 percent slopes

Component Description
Lester and similar soils
Extent: 50 to 80 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and backslopes
Slope range: 18 to 25 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 3.2 percent
Typical profile:
A—0 to 8 inches; loamy fine sand
E—8 to 24 inches; loamy fine sand
2Bt—24 to 46 inches; sandy clay loam
2C—46 to 60 inches; loam

Metea and similar soils
Extent: 20 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 18 to 25 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash over till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 3 percent

Terril
Extent: 5 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
A1,A2—0 to 24 inches; loam
AB—24 to 37 inches; loam
Bw—37 to 57 inches; loam
C—57 to 80 inches; loam

Hamel
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
A1,A2—0 to 22 inches; loam
Btg—22 to 41 inches; clay loam
Cg—41 to 80 inches; loam

Ridgeton
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 10 to 20 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
A1,A2,A3—0 to 32 inches; loam
Bw—32 to 40 inches; loam
C1,C2—40 to 80 inches; loam

L62B—Koronis-Kingsley-Malardi complex, 2 to 6 percent slopes

Component Description
Koronis and similar soils
Extent: 30 to 70 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 9.7 inches
Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:
Ap—0 to 10 inches; sandy loam
Bt—10 to 30 inches; sandy clay loam
Bk—30 to 60 inches; loam

Kingsley and similar soils
Extent: 10 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 2.2 percent

Typical profile:
Ap—0 to 7 inches; sandy loam
E—7 to 14 inches; sandy loam
Bt—14 to 34 inches; sandy loam
C—34 to 60 inches; sandy loam

Malardi and similar soils
Extent: 10 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 2 to 6 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.8 inches
Content of organic matter in the upper 10 inches: 2.3 percent
Typical profile:
   Ap—0 to 9 inches; sandy loam
   Bt—9 to 14 inches; sandy loam
   2Bt—14 to 21 inches; gravelly loamy coarse sand
   2C—21 to 80 inches; gravelly sand

Forestcity
Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
   Ap,A1—0 to 22 inches; fine sandy loam
   A2,AB—22 to 36 inches; loam
   2Btg—36 to 60 inches; sandy clay loam
   2Cg—60 to 80 inches; sandy loam

L62C2—Koronis-Kingsley-Malardi complex, 6 to 12 percent slopes, eroded

Component Description

Koronis, eroded, and similar soils
Extent: 30 to 70 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 9.7 inches
Content of organic matter in the upper 10 inches: 9.7 percent
Typical profile:
   Ap—0 to 10 inches; sandy loam
   Bt—10 to 30 inches; sandy clay loam
   Bk—30 to 60 inches; loam

Kingsley, eroded, and similar soils
Extent: 10 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
   Ap—0 to 7 inches; sandy loam
   E—7 to 14 inches; sandy loam
Malardi, eroded, and similar soils

Extent: 10 to 40 percent of the unit
Geomorph setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.8 inches
Content of organic matter in the upper 10 inches: 1.9 percent
Typical profile:
  Ap—0 to 9 inches; sandy loam
  Bt—9 to 14 inches; sandy loam
  2Bt—14 to 21 inches; gravelly loamy coarse sand
  2C—21 to 80 inches; gravelly sand

Forestcity

Extent: 5 to 20 percent of the unit
Geomorph setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
  Ap,A1—0 to 22 inches; fine sandy loam
  A2,AB—22 to 36 inches; loam
  2Btg—36 to 60 inches; sandy clay loam
  2Cg—60 to 80 inches; sandy loam

Kingsley, eroded, and similar soils

Extent: 10 to 40 percent of the unit
Geomorph setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 12 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.2 inches
Content of organic matter in the upper 10 inches: 1.5 percent
Typical profile:
  Ap—0 to 7 inches; sandy loam
  E—7 to 14 inches; sandy loam
  Bt—14 to 34 inches; sandy loam
  Bk—30 to 60 inches; loam

L62D2—Koronis-Kingsley-Malardi complex, 12 to 18 percent slopes, eroded

Component Description

Koronis, eroded, and similar soils

Extent: 30 to 70 percent of the unit
Geomorph setting: Hills on moraines
Position on the landform: Summits and backslopes
Slope range: 12 to 18 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Available water capacity to a depth of 60 inches: 8.9 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
  Ap—0 to 10 inches; sandy loam
  Bt—10 to 30 inches; sandy clay loam
  Bk—30 to 60 inches; loam
Malardi, eroded, and similar soils

**Extent:** 10 to 40 percent of the unit  
**Geomorphic setting:** Hills on moraines  
**Position on the landform:** Shoulders and summits  
**Slope range:** 12 to 18 percent  
**Texture of the surface layer:** Sandy loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Somewhat excessively drained  
**Parent material:** Outwash  
**Depth to wet soil moisture status:** More than 6.7 feet all year  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 3.8 inches  
**Content of organic matter in the upper 10 inches:** 1.9 percent  
**Typical profile:**  
- Ap—0 to 9 inches; sandy loam  
- Bt—9 to 14 inches; sandy loam  
- 2Bt—14 to 21 inches; gravelly loamy coarse sand  
- 2C—21 to 80 inches; gravelly sand

Forestcity

**Extent:** 5 to 20 percent of the unit  
**Geomorphic setting:** Moraines  
**Position on the landform:** Swales and drainageways  
**Slope range:** 0 to 2 percent  
**Texture of the surface layer:** Fine sandy loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Poorly drained  
**Parent material:** Colluvium over till  
**Flooding:** None  
**Wet soil moisture status is highest (depth, months):** 0.5 foot (April)  
**Wet soil moisture status is lowest (depth, months):** 3.3 feet (February, August)  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 8.9 inches  
**Content of organic matter in the upper 10 inches:** 6 percent  
**Typical profile:**  
- Ap,A1—0 to 22 inches; fine sandy loam  
- A2,AB—22 to 36 inches; loam  
- 2Btg—36 to 60 inches; sandy clay loam  
- 2Cg—60 to 80 inches; sandy loam

L62E—Koronis-Kingsley-Malardi complex, 18 to 35 percent slopes

**Component Description**

**Koronis and similar soils**

**Extent:** 30 to 70 percent of the unit  
**Geomorphic setting:** Hills on moraines  
**Position on the landform:** Backslopes and summits  
**Slope range:** 18 to 35 percent  
**Texture of the surface layer:** Sandy loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Well drained  
**Parent material:** Till  
**Flooding:** None  
**Depth to wet soil moisture status:** More than 5 feet all year  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 9.7 inches  
**Content of organic matter in the upper 10 inches:** 3 percent  
**Typical profile:**  
- A—0 to 10 inches; sandy loam  
- Bt—10 to 30 inches; sandy clay loam  
- Bk—30 to 60 inches; loam

**Kingsley and similar soils**

**Extent:** 10 to 40 percent of the unit  
**Geomorphic setting:** Hills on moraines  
**Position on the landform:** Backslopes and summits  
**Slope range:** 18 to 35 percent  
**Texture of the surface layer:** Sandy loam  
**Depth to restrictive feature:** Very deep (more than 60 inches)  
**Drainage class:** Well drained  
**Parent material:** Till  
**Flooding:** None  
**Depth to wet soil moisture status:** More than 5 feet all year  
**Ponding:** None  
**Available water capacity to a depth of 60 inches:** 8.2 inches  
**Content of organic matter in the upper 10 inches:** 3.7 percent  
**Typical profile:**  
- A—0 to 7 inches; sandy loam  
- E—7 to 14 inches; sandy loam  
- Bt—14 to 34 inches; sandy loam  
- Bk—34 to 60 inches; sandy loam
Malardi and similar soils
Extent: 10 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Summits and shoulders
Slope range: 18 to 35 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.8 inches
Content of organic matter in the upper 10 inches: 4.6 percent
Typical profile:
A—0 to 9 inches; sandy loam
Bt—9 to 14 inches; sandy loam
2Bt—14 to 21 inches; gravelly loamy coarse sand
2C—21 to 80 inches; gravelly sand

Forestcity
Extent: 5 to 20 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 7.6 inches
Content of organic matter in the upper 10 inches: 4.3 percent
Typical profile:
A1—0 to 22 inches; fine sandy loam
A2,AB—22 to 36 inches; loam
2Btg—36 to 60 inches; sandy clay loam
2Cg—60 to 80 inches; gravelly sand

Tadkee, depressional, and similar soils
Extent: 20 to 70 percent of the unit
Geomorphic setting: Beaches on moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Mucky loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Beach sand over till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April, May, June)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (March, April, May)
Available water capacity to a depth of 60 inches: 9.8 inches
**Content of organic matter in the upper 10 inches:** 12.1 percent

**Typical profile:**
- A—0 to 6 inches; mucky loamy fine sand
- Bg—6 to 27 inches; sand
- 2Cg—27 to 80 inches; loam

**Better drained soil**

**Extent:** 0 to 20 percent of the unit

**Geomorphic setting:** Beaches on moraines

**Position on the landform:** Slight rises

**Slope range:** 0 to 3 percent

**Texture of the surface layer:** Loamy sand

**Depth to restrictive feature:** Very deep (more than 60 inches)

**Drainage class:** Moderately well drained

**Parent material:** Outwash over till

**Flooding:** None

**Wet soil moisture status is highest (depth, months):** 2.5 feet (April)

**Wet soil moisture status is lowest (depth, months):** More than 6.7 feet (February, August)

**Ponding:** None

**Available water capacity to a depth of 60 inches:** 8.2 inches

**Content of organic matter in the upper 10 inches:** 2.1 percent

**Typical profile:**
- A—0 to 6 inches; loamy sand
- Bw—6 to 25 inches; loamy sand
- 2Cg—25 to 80 inches; loam

**Granby**

**Extent:** 0 to 6 percent of the unit

**Geomorphic setting:** Beaches on moraines

**Position on the landform:** Depressions

**Slope range:** 0 to 1 percent

**Texture of the surface layer:** Loamy fine sand

**Depth to restrictive feature:** Very deep (more than 60 inches)

**Drainage class:** Very poorly drained

**Parent material:** Outwash

**Flooding:** None

**Wet soil moisture status is highest (depth, months):** At the surface (March, April, May, June)

**Wet soil moisture status is lowest (depth, months):** 1.8 feet (August)

**Ponding does not occur (months):** January, February, July, August, September, October, November, December

**Ponding is deepest (depth, months):** 1 foot (March, April, May)

**Available water capacity to a depth of 60 inches:** 4.9 inches

**Content of organic matter in the upper 10 inches:** 7 percent

**Typical profile:**
- A—0 to 12 inches; loamy fine sand
- AC—12 to 24 inches; loamy fine sand
- C—24 to 60 inches; loamy fine sand

**Less sandy soil**

**Extent:** 0 to 5 percent of the unit

**Geomorphic setting:** Beaches on moraines

**Position on the landform:** Flats

**Slope range:** 0 to 2 percent

**Texture of the surface layer:** Loamy fine sand

**Depth to restrictive feature:** Very deep (more than 60 inches)

**Drainage class:** Poorly drained

**Parent material:** Till

**Flooding:** None

**Wet soil moisture status is highest (depth, months):** 0.5 foot (April)

**Wet soil moisture status is lowest (depth, months):** 3.3 feet (February, August)

**Ponding:** None

**Available water capacity to a depth of 60 inches:** 9.9 inches

**Content of organic matter in the upper 10 inches:** 2.9 percent

**Typical profile:**
- A—0 to 4 inches; loamy fine sand
- Bg—4 to 20 inches; loam
- Cg—20 to 80 inches; loam

**L70C2—Lester-Malardi complex, 6 to 12 percent slopes, eroded**

**Component Description**

**Lester, eroded, and similar soils**

**Extent:** 50 to 80 percent of the unit

**Geomorphic setting:** Hills on moraines

**Position on the landform:** Shoulders and backslopes

**Slope range:** 6 to 12 percent

**Texture of the surface layer:** Loam

**Depth to restrictive feature:** Very deep (more than 60 inches)

**Drainage class:** Well drained

**Parent material:** Till

**Flooding:** None

**Depth to wet soil moisture status:** More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
   Ap—0 to 7 inches; loam
   Bt—7 to 38 inches; clay loam
   Bk—38 to 60 inches; loam
   C—60 to 80 inches; loam

Malardi, eroded, and similar soils
Extent: 20 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 6 to 12 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 4.3 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
   Ap—0 to 10 inches; sandy loam
   Bt—10 to 15 inches; sandy loam
   2Bt—15 to 29 inches; loamy coarse sand
   2C—29 to 80 inches; gravelly sand

Hamel
Extent: 0 to 5 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
   Ap,A1—0 to 27 inches; loam
   A2,BA—27 to 40 inches; loam
   Bw—40 to 63 inches; loam
   C—63 to 80 inches; loam

L70D2—Lester-Malardi complex, 12 to 18 percent slopes, eroded

   Component Description

Lester, eroded, and similar soils
Extent: 50 to 80 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Backslopes and shoulders
Slope range: 12 to 18 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.6 percent

Typical profile:
- Ap—0 to 7 inches; loam
- Bt—7 to 38 inches; clay loam
- Bk—38 to 60 inches; loam
- C—60 to 80 inches; loam

**Malardi, eroded, and similar soils**

Extent: 20 to 40 percent of the unit

Geomorphic setting: Hills on moraines

Position on the landform: Summits and shoulders

Slope range: 12 to 18 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Outwash

Flooding: None

Depth to wet soil moisture status: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches

Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:
- Ap—0 to 9 inches; sandy loam
- Bt—9 to 14 inches; sandy loam
- 2Bt—14 to 21 inches; gravelly loamy coarse sand
- 2C—21 to 80 inches; gravelly sand

**Terril**

Extent: 5 to 20 percent of the unit

Geomorphic setting: Hills on moraines

Position on the landform: Footslopes and backslopes

Slope range: 8 to 14 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Colluvium over till

Flooding: None

Wet soil moisture status is highest (depth, months): 0.5 foot (April)

Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 11.4 inches

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
- Ap,A1—0 to 27 inches; loam
- A2,BA—27 to 40 inches; loam
- Bw—40 to 63 inches; loam
- C—63 to 80 inches; loam

**Ridgeton**

Extent: 0 to 10 percent of the unit

Geomorphic setting: Hills on moraines

Position on the landform: Footslopes and backslopes

Slope range: 8 to 14 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Colluvium over till

Flooding: None

Depth to wet soil moisture status: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 11.2 inches

Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
- Ap,A1—0 to 23 inches; loam
- A2,AB—23 to 38 inches; loam
- Bw—38 to 50 inches; loam
- C—50 to 80 inches; loam

**Hamel**

Extent: 0 to 5 percent of the unit

Geomorphic setting: Moraines

Position on the landform: Swales and drainageways

Slope range: 1 to 3 percent

Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Colluvium over till

Flooding: None

Wet soil moisture status is highest (depth, months): 0.5 foot (April)

Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 11.6 inches

Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
- Ap,A,AB—0 to 24 inches; loam
- Btg—24 to 46 inches; clay loam
- Cg—46 to 80 inches; loam
L70E—Lester-Malardi complex, 18 to 35 percent slopes

Component Description

Lester and similar soils

Extent: 50 to 80 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and backslopes
Slope range: 18 to 35 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3 percent
Typical profile:
  A—0 to 5 inches; loam
  BE,Bt—5 to 34 inches; clay loam
  Bk—34 to 60 inches; loam
  C—60 to 80 inches; loam

Malardi and similar soils

Extent: 20 to 40 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and summits
Slope range: 18 to 35 percent
Texture of the surface layer: Sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 3.8 inches
Content of organic matter in the upper 10 inches: 4.6 percent
Typical profile:
  A1,A2—0 to 24 inches; loam
  AB—24 to 37 inches; loam
  Bw—37 to 57 inches; loam
  C—57 to 80 inches; loam

Terril

Extent: 5 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 2 to 6 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
  A1,A2—0 to 24 inches; loam
  AB—24 to 37 inches; loam
  Bw—37 to 57 inches; loam
  C—57 to 80 inches; loam

Hamel

Extent: 0 to 10 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Swales and drainageways
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
  A1,A2—0 to 22 inches; loam
  Btg—22 to 41 inches; clay loam
  Cg—41 to 80 inches; loam
Ridgeton
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 10 to 20 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 5 percent
Typical profile:
A1,A2,A3—0 to 32 inches; loam
Bw—32 to 40 inches; loam
C1,C2—40 to 80 inches; loam

L71C—Metea loamy fine sand, 6 to 12 percent slopes

Component Description

Metea and similar soils
Extent: 70 to 90 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders, summits, and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Outwash over till
Flooding: None
Depth to wet soil moisture status: More than 5 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.2 percent
Typical profile:
Ap—0 to 7 inches; loam
Bt—7 to 38 inches; clay loam
Bk—38 to 60 inches; loam
C—60 to 80 inches; loam

Lester
Extent: 5 to 20 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Shoulders and backslopes
Slope range: 6 to 12 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 1.6 percent
Typical profile:
Ap—0 to 7 inches; loam
Bt—7 to 38 inches; clay loam
Bk—38 to 60 inches; loam
C—60 to 80 inches; loam

Moon
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes and backslopes
Slope range: 2 to 5 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Outwash over till
Flooding: None
Wet soil moisture status is highest (depth, months): 2.5 feet (April)
Wet soil moisture status is lowest (depth, months):
More than 5 feet (January, February, June, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 8.4 inches
Content of organic matter in the upper 10 inches: 1.7 percent
Typical profile:
Ap—0 to 8 inches; loamy fine sand
E—8 to 24 inches; loamy fine sand
2Bt—24 to 46 inches; sandy clay loam
2C—46 to 60 inches; loam

L72A—Lundlake loam, depressional, 0 to 1 percent slopes

Component Description
Lundlake, depressional, and similar soils

Extent: 85 to 100 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
Ap,A1—0 to 20 inches; loam
A2,A3,AB—20 to 46 inches; loam
Bg—46 to 54 inches; sandy loam
Cg—54 to 60 inches; sandy loam

Forestcity

Extent: 5 to 15 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Rims of depressions
Slope range: 0 to 2 percent
Texture of the surface layer: Fine sandy loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None

Available water capacity to a depth of 60 inches: 9 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
Ap,A1—0 to 22 inches; fine sandy loam
A2,AB—22 to 43 inches; loam
2Btg—43 to 60 inches; sandy clay loam
2BCg—60 to 80 inches; sandy loam

L110E—Lester-Ridgeton complex, 18 to 25 percent slopes

Component Description
Lester and similar soils

Extent: 45 to 65 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Shoulders and backslopes
Slope range: 18 to 25 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 10.4 inches
Content of organic matter in the upper 10 inches: 3 percent

Typical profile:
A—0 to 5 inches; loam
BE,Bt—5 to 34 inches; clay loam
Bk—34 to 60 inches; loam
C—60 to 80 inches; loam

Ridgeton and similar soils

Extent: 20 to 40 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Backslopes and footslopes
Slope range: 12 to 25 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Colluvium over till
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 5 percent

Typical profile:
A1,A2,A3—0 to 32 inches; loam
Bw—32 to 40 inches; loam
C1,C2—40 to 80 inches; loam

Cokato

Extent: 10 to 20 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Summits and backslopes
Slope range: 18 to 25 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None

Available water capacity to a depth of 60 inches: 10.8 inches
Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
A—0 to 16 inches; loam
Bt—16 to 30 inches; clay loam
Bk—30 to 60 inches; loam

Belview

Extent: 0 to 15 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Shoulders and backslopes
Slope range: 18 to 25 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Well drained
Parent material: Till
Flooding: None

Available water capacity to a depth of 60 inches: 10.5 inches
Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
A—0 to 9 inches; loam
Bk—9 to 50 inches; loam
C—50 to 60 inches; loam

Hamel

Extent: 0 to 5 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Toeslopes
Slope range: 1 to 4 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None

Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 6 percent

Typical profile:
A1,A2—0 to 22 inches; loam
Btg—22 to 41 inches; clay loam
Cg—41 to 80 inches; loam

Terril

Extent: 1 to 5 percent of the unit
Geomorphic setting: Escarpments on moraines
Position on the landform: Footslopes
Slope range: 4 to 6 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None

Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None

Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 4 percent

Typical profile:
A1,A2—0 to 24 inches; loam
AB—24 to 37 inches; loam
**L110F—Lester-Ridgeton complex, 25 to 45 percent slopes**

**Component Description**

**Lester and similar soils**

*Extent:* 45 to 65 percent of the unit  
*Geomorphic setting:* Escarpments on moraines  
*Position on the landform:* Shoulders and backslopes  
*Slope range:* 25 to 45 percent  
*Texture of the surface layer:* Loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Well drained  
*Parent material:* Till  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 10.4 inches  
*Content of organic matter in the upper 10 inches:* 3.3 percent  
*Typical profile:*  
A—0 to 6 inches; loam  
Bt—6 to 25 inches; clay loam  
C—25 to 60 inches; loam

**Ridgeton and similar soils**

*Extent:* 20 to 40 percent of the unit  
*Geomorphic setting:* Escarpments on moraines  
*Position on the landform:* Backslopes and footslopes  
*Slope range:* 18 to 25 percent  
*Texture of the surface layer:* Loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Well drained  
*Parent material:* Colluvium over till  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 11.4 inches  
*Content of organic matter in the upper 10 inches:* 5 percent  
*Typical profile:*  
A1,A2,A3—0 to 32 inches; loam  
Bw—32 to 40 inches; loam  
C1,C2—40 to 60 inches; loam

**Cokato**

*Extent:* 0 to 20 percent of the unit  
*Geomorphic setting:* Escarpments on moraines  
*Position on the landform:* Summits and backslopes  
*Slope range:* 25 to 40 percent  
*Texture of the surface layer:* Loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Well drained  
*Parent material:* Till  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 6.7 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 10.8 inches  
*Content of organic matter in the upper 10 inches:* 4 percent  
*Typical profile:*  
A—0 to 16 inches; loam  
Bt—16 to 30 inches; clay loam  
Bk—30 to 60 inches; loam

**Belview**

*Extent:* 2 to 15 percent of the unit  
*Geomorphic setting:* Escarpments on moraines  
*Position on the landform:* Backslopes and shoulders  
*Slope range:* 25 to 45 percent  
*Texture of the surface layer:* Loam  
*Depth to restrictive feature:* Very deep (more than 60 inches)  
*Drainage class:* Well drained  
*Parent material:* Till  
*Flooding:* None  
*Depth to wet soil moisture status:* More than 5 feet all year  
*Ponding:* None  
*Available water capacity to a depth of 60 inches:* 10.5 inches  
*Content of organic matter in the upper 10 inches:* 3.7 percent  
*Typical profile:*  
A—0 to 9 inches; loam  
Bk—9 to 50 inches; loam  
C—50 to 60 inches; loam

**Terril**

*Extent:* 1 to 5 percent of the unit  
*Geomorphic setting:* Escarpments on moraines  
*Position on the landform:* Footslopes  
*Slope range:* 4 to 6 percent  
*Texture of the surface layer:* Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flood: None
Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.3 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
A1,A2—0 to 24 inches; loam
AB—24 to 37 inches; loam
Bw—37 to 57 inches; loam
C—57 to 80 inches; loam

Hamel
Extent: 0 to 3 percent of the unit
Geomorph setting: Escarpments on moraines
Position on the landform: Toeslopes
Slope range: 1 to 4 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flood: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.5 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
Ap,A,AB—0 to 20 inches; loamy fine sand
Bw—20 to 33 inches; fine sand
BC—33 to 40 inches; very fine sandy loam
C—40 to 80 inches; loamy fine sand

L131A—Litchfield loamy fine sand, 0 to 3 percent slopes

Component Description
Litchfield and similar soils
Extent: 75 to 95 percent of the unit

Geomorph setting: Stream terraces and outwash plains
Position on the landform: Flats and slight rises
Slope range: 0 to 3 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Outwash
Flood: None
Wet soil moisture status is highest (depth, months): 1.3 feet (April)
Wet soil moisture status is lowest (depth, months): 3 feet (August)
Ponding: None
Available water capacity to a depth of 60 inches: 7.2 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
Ap,A,AB—0 to 20 inches; loamy fine sand
Bw—20 to 33 inches; fine sand
BC—33 to 40 inches; very fine sandy loam
C—40 to 80 inches; loamy fine sand

Crowfork
Extent: 0 to 10 percent of the unit
Geomorph setting: Stream terraces and outwash plains
Position on the landform: Flats and slight rises
Slope range: 0 to 3 percent
Texture of the surface layer: Loamy fine sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Outwash
Flood: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 7.6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
Ap,A—0 to 16 inches; sandy loam
Bg—16 to 32 inches; sandy clay loam
Cg—32 to 80 inches; stratified sand to loamy fine sand to fine sandy loam
Geomorphic setting: Stream terraces and outwash plains
Position on the landform: Slight rises
Slope range: 3 to 6 percent
Texture of the surface layer: Loamy sand
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Excessively drained
Parent material: Outwash
Flooding: None
Depth to wet soil moisture status: More than 6.7 feet all year
Ponding: None
Available water capacity to a depth of 60 inches: 5.6 inches
Content of organic matter in the upper 10 inches: 2 percent
Typical profile:
  Ap—0 to 11 inches; loamy sand
  E—11 to 20 inches; loamy fine sand
  E&Bt—20 to 76 inches; loamy sand
  C—76 to 80 inches; sand

L132A—Hamel-Glencoe, depressional, complex, 0 to 3 percent slopes

Component Description

Hamel and similar soils
Extent: 40 to 80 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Drainageways and swales
Slope range: 1 to 3 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 0.5 foot (April)
Wet soil moisture status is lowest (depth, months): 3.3 feet (February, August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.6 inches
Content of organic matter in the upper 10 inches: 6 percent
Typical profile:
  Ap,A,AB—0 to 24 inches; loam
  A,Bg1—13 to 31 inches; clay loam
  Bg2—31 to 45 inches; loam
  Cg—45 to 80 inches; loam

Glencoe, depressional, and similar soils
Extent: 20 to 40 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Depressions
Slope range: 0 to 1 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Very poorly drained
Parent material: Till
Flooding: None
Wet soil moisture status is highest (depth, months): At the surface (March, April)
Wet soil moisture status is lowest (depth, months): 2 feet (February, August)
Ponding does not occur (months): January, February, March, April, May, June, July, August, September, October, November, December
Ponding is deepest (depth, months): 1 foot (April)
Available water capacity to a depth of 60 inches: 11.1 inches
Content of organic matter in the upper 10 inches: 7.5 percent
Typical profile:
  Ap—0 to 13 inches; loam
  A,Bg1—13 to 31 inches; clay loam
  Bg2—31 to 45 inches; loam
  Cg—45 to 80 inches; loam

Hamel, overwash
Extent: 5 to 25 percent of the unit
Geomorphic setting: Moraines
Position on the landform: Drainageways and swales
Slope range: 1 to 4 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Somewhat poorly drained
Parent material: Colluvium over till
Flooding: None
Wet soil moisture status is highest (depth, months): 1.5 feet (April)
Wet soil moisture status is lowest (depth, months): 4.5 feet (August)
Ponding: None
Available water capacity to a depth of 60 inches: 11.8 inches
Content of organic matter in the upper 10 inches: 3.5 percent
Typical profile:
  Ap,A—0 to 13 inches; loam
  A—13 to 29 inches; clay loam
Btg—29 to 50 inches; clay loam
Cg—50 to 80 inches; loam

Terril
Extent: 0 to 10 percent of the unit
Geomorphic setting: Hills on moraines
Position on the landform: Footslopes
Slope range: 2 to 5 percent
Texture of the surface layer: Loam
Depth to restrictive feature: Very deep (more than 60 inches)
Drainage class: Moderately well drained
Parent material: Colluvium over till
Flooding: None

Wet soil moisture status is highest (depth, months): 3.6 feet (April)
Wet soil moisture status is lowest (depth, months): More than 6.7 feet (January, February, July, August, September)
Ponding: None
Available water capacity to a depth of 60 inches: 11.4 inches
Content of organic matter in the upper 10 inches: 4 percent
Typical profile:
Ap,A1—0 to 27 inches; loam
A2,BA—27 to 40 inches; loam
Bw—40 to 63 inches; loam
C—63 to 80 inches; loam

M-W—Water, miscellaneous

Component Description
• This map unit consists of bodies of water that have been constructed, including sewage lagoons, stormwater sediment basins with a permanent pool of water, and aquaculture ponds.

U1A—Urban land-Udorthents, wet substratum, complex, 0 to 2 percent slopes

Component Description
Urban land
Extent: 65 to 90 percent of the unit
Geomorphic setting: Stream terraces, outwash plains, and moraines
Slope range: 0 to 2 percent
Flooding: None
Ponding: None
General description: Urban land consists mainly of commercial, industrial, or residential areas and is covered by impervious surfaces. Most areas were originally wet, mineral or organic soils in depressions. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

U2A—Udorthents, wet substratum, 0 to 2 percent slopes

Component Description
Udorthents, wet substratum
Extent: 100 percent of the unit
Geomorphic setting: Stream terraces, outwash plains, and moraines
Position on the landform: Filled depressions
Slope range: 0 to 2 percent
Parent material: Various soil material
Flooding: None
Ponding: None
General description: The Udorthents consist of fill material that has been placed in wet depressional areas to match the adjoining upland landscape. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

U3B—Udorthents (cut and fill land), 0 to 6 percent slopes

Component Description
Udorthents (cut and fill land)
Extent: 100 percent of the unit
Geomorphic setting: Moraines
Slope range: 0 to 6 percent
Parent material: Various loamy material
Flooding: None
Ponding: None

General description: Udorthents consist primarily of areas that have been cut for leveling or filled for development. The cut and/or fill material is dominantly loamy soil material. As much as 30 percent of this map unit is covered by impervious surfaces. Most of the areas have been disturbed by construction activity. Because of the variability of this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

U4A—Urban land-Udipsamments (cut and fill land) complex, 0 to 2 percent slopes

Component Description

Urban land
Extent: 65 to 85 percent of the unit
Geomorphologic setting: Outwash plains and stream terraces
Slope range: 0 to 2 percent
Flooding: None
Ponding: None

General description: Urban land consists mainly of industrial parks, office buildings, warehouses, and railroad yards and is covered by impervious surfaces. Most areas were originally wet, mineral or organic soils in depressions. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Udipsamments (cut and fill land)
Extent: 15 to 50 percent of the unit
Geomorphologic setting: Outwash plains and stream terraces
Slope range: 0 to 2 percent
Parent material: Various sandy material
Flooding: None
Ponding: None

General description: The Udipsamments consist of nearly level areas that have undergone minimal grading. The cut and fill material is dominantly sandy. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

U5A—Urban land-Udorthents, wet substratum, complex, 0 to 2 percent slopes, rarely flooded

Component Description

Urban land
Extent: 35 to 85 percent of the unit
Geomorphologic setting: Flood plains
Slope range: 0 to 2 percent
Flooding does not occur (months): January, February, March, July, August, September, October, November, December
Flooding is most likely (frequency, months): Rare (April, May, June)
Ponding: None

General description: Urban land consists mainly of commercial and residential areas and is covered by impervious surfaces. Most areas have been disturbed to some degree by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Udorthents, wet substratum
Extent: 15 to 50 percent of the unit
Position on the landform: Filled areas
Slope range: 0 to 2 percent
Parent material: Various soil material
Flooding does not occur (months): January, February, March, July, August, September, October, November, December
Flooding is most likely (frequency, months): Rare (April, May, June)
Ponding: None

General description: The Udorthents consist of fill material that has been placed in wet areas on flood plains to match the adjoining upland landscape. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

U6B—Urban land-Udorthents (cut and fill land) complex, 0 to 6 percent slopes

Component Description

Urban land
Extent: 35 to 80 percent of the unit
Geomorphologic setting: Moraines
Slope range: 0 to 6 percent
Flooding: None
Ponding: None

General description: Urban land consists mainly of residential areas, industrial parks, office buildings, warehouses, railroad yards, and freeway interchanges and is covered by impervious surfaces. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

Udorthents (cut and fill land)

Extent: 20 to 65 percent of the unit
Geomorphic setting: Moraines
Slope range: 0 to 6 percent
Parent material: Various loamy material
Flooding: None
Ponding: None

General description: Udorthents consist primarily of areas that have been cut for leveling or filled for development. The cut and/or fill material is dominantly loamy soil material. As much as 30 percent of this component is covered by impervious surfaces. Most areas have been disturbed by construction activity. Because of the variability of this component, interpretations for specific uses are not available. Onsite investigation is needed.

W—Water

Component Description

• This map unit consists of naturally occurring bodies of water or bodies of water that have been impounded by structures in natural waterways.

### Table 2.—Acreage and Proportionate Extent of the Soils

<table>
<thead>
<tr>
<th>Map symbol</th>
<th>Soil name</th>
<th>Acres</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1B</td>
<td>Anoka and Zimmerman soils, terrace, 2 to 6 percent slopes</td>
<td>1,122</td>
<td>0.3</td>
</tr>
<tr>
<td>D1C</td>
<td>Anoka and Zimmerman soils, terrace, 6 to 12 percent slopes</td>
<td>295</td>
<td>*</td>
</tr>
<tr>
<td>D2A</td>
<td>Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded</td>
<td>506</td>
<td>0.1</td>
</tr>
<tr>
<td>D3A</td>
<td>Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded</td>
<td>472</td>
<td>0.1</td>
</tr>
<tr>
<td>D4A</td>
<td>Dorset sandy loam, 0 to 2 percent slopes</td>
<td>1,667</td>
<td>0.4</td>
</tr>
<tr>
<td>D4B</td>
<td>Dorset sandy loam, 2 to 6 percent slopes</td>
<td>423</td>
<td>0.1</td>
</tr>
<tr>
<td>D4C</td>
<td>Dorset sandy loam, 6 to 12 percent slopes</td>
<td>148</td>
<td>*</td>
</tr>
<tr>
<td>D5B</td>
<td>Dorset-Two Inlets complex, 2 to 6 percent slopes</td>
<td>171</td>
<td>*</td>
</tr>
<tr>
<td>D5C</td>
<td>Dorset-Two Inlets complex, 6 to 12 percent slopes</td>
<td>68</td>
<td>*</td>
</tr>
<tr>
<td>D5D</td>
<td>Dorset-Two Inlets complex, 12 to 18 percent slopes</td>
<td>31</td>
<td>*</td>
</tr>
<tr>
<td>D6A</td>
<td>Verndale sandy loam, acid substratum, 0 to 2 percent slopes</td>
<td>1,638</td>
<td>0.4</td>
</tr>
<tr>
<td>D6B</td>
<td>Verndale sandy loam, acid substratum, 2 to 6 percent slopes</td>
<td>362</td>
<td>*</td>
</tr>
<tr>
<td>D6C</td>
<td>Verndale sandy loam, 6 to 12 percent slopes</td>
<td>10</td>
<td>*</td>
</tr>
<tr>
<td>D7A</td>
<td>Hubbard loamy sand, 0 to 2 percent slopes</td>
<td>4,455</td>
<td>1.1</td>
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<tr>
<td>D7B</td>
<td>Hubbard loamy sand, 2 to 6 percent slopes</td>
<td>3,173</td>
<td>0.8</td>
</tr>
<tr>
<td>D7C</td>
<td>Hubbard loamy sand, 6 to 12 percent slopes</td>
<td>674</td>
<td>0.2</td>
</tr>
<tr>
<td>D8B</td>
<td>Sandberg loamy coarse sand, 2 to 6 percent slopes</td>
<td>26</td>
<td>*</td>
</tr>
<tr>
<td>D8C</td>
<td>Sandberg loamy coarse sand, 6 to 12 percent slopes</td>
<td>146</td>
<td>*</td>
</tr>
<tr>
<td>D8D</td>
<td>Sandberg loamy coarse sand, 12 to 18 percent slopes</td>
<td>212</td>
<td>*</td>
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<td>D8E</td>
<td>Sandberg loamy coarse sand, 18 to 35 percent slopes</td>
<td>478</td>
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<tr>
<td>D10A</td>
<td>Forada sandy loam, 0 to 2 percent slopes</td>
<td>1,535</td>
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<tr>
<td>D11A</td>
<td>Lindsaa silt loam, 0 to 2 percent slopes</td>
<td>39</td>
<td>*</td>
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<tr>
<td>D12B</td>
<td>Bygland silt loam, MAP &gt;25, 2 to 6 percent slopes</td>
<td>80</td>
<td>*</td>
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<tr>
<td>D12C2</td>
<td>Bygland silt loam, MAP &gt;25, 6 to 12 percent slopes, eroded</td>
<td>6</td>
<td>*</td>
</tr>
<tr>
<td>D13A</td>
<td>Langola loamy fine sand, terrace, 0 to 2 percent slopes</td>
<td>302</td>
<td>*</td>
</tr>
<tr>
<td>D13B</td>
<td>Langola loamy fine sand, terrace, 2 to 6 percent slopes</td>
<td>91</td>
<td>*</td>
</tr>
<tr>
<td>D15A</td>
<td>Seelyville-Markley complex, depressional, 0 to 1 percent slopes</td>
<td>30</td>
<td>*</td>
</tr>
<tr>
<td>D16A</td>
<td>Seelyville and Markley soils, ponded, 0 to 1 percent slopes</td>
<td>1,175</td>
<td>0.3</td>
</tr>
<tr>
<td>D17A</td>
<td>Deuel loamy sand, 0 to 2 percent slopes</td>
<td>1,997</td>
<td>0.5</td>
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<tr>
<td>D18B</td>
<td>Braham loamy fine sand, terrace, 2 to 5 percent slopes</td>
<td>155</td>
<td>*</td>
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<tr>
<td>D19A</td>
<td>Fordum-Winterfield complex, 0 to 2 percent slopes, frequently flooded</td>
<td>466</td>
<td>0.1</td>
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<tr>
<td>D20A</td>
<td>Ison sandy loam, 0 to 2 percent slopes</td>
<td>4,336</td>
<td>1.1</td>
</tr>
<tr>
<td>D21A</td>
<td>Ison sandy loam, depressional, 0 to 1 percent slopes</td>
<td>317</td>
<td>*</td>
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</tbody>
</table>

See footnote at end of table.
### Table 2.--Acreage and Proportionate Extent of the Soils--Continued

<table>
<thead>
<tr>
<th>Map symbol</th>
<th>Soil name</th>
<th>Acres</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>D23A</td>
<td>Southaven loam, 0 to 2 percent slopes, frequently flooded</td>
<td>117</td>
<td></td>
</tr>
<tr>
<td>D24A</td>
<td>Sedgeville loam, 0 to 2 percent slopes, occasionally flooded</td>
<td>43</td>
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<tr>
<td>D25A</td>
<td>Soderville loamy fine sand, terrace, 0 to 3 percent slopes</td>
<td>1,911</td>
<td>0.5</td>
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<tr>
<td>D26A</td>
<td>Foldahi loamy sand, MAP &gt;25, 0 to 3 percent slopes</td>
<td>282</td>
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<tr>
<td>D27A</td>
<td>Dorset sandy loam, loamy substratum, 0 to 2 percent slopes</td>
<td>153</td>
<td></td>
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<tr>
<td>D28B</td>
<td>Urban land-Ryegland, MAP &gt;25, complex, 1 to 6 percent slopes</td>
<td>1,227</td>
<td>0.3</td>
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<tr>
<td>D29B</td>
<td>Urban land-Hubbard, bedrock substratum, complex, 0 to 8 percent slopes</td>
<td>558</td>
<td>0.1</td>
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<tr>
<td>D30A</td>
<td>Seelyville and Markey soils, depressional, 0 to 1 percent slopes</td>
<td>1,137</td>
<td>0.3</td>
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<tr>
<td>D31A</td>
<td>Urban land-Duelm complex, 0 to 2 percent slopes</td>
<td>2,567</td>
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<tr>
<td>D32A</td>
<td>Urban land-Dorset complex, 0 to 8 percent slopes</td>
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<td>D33C</td>
<td>Urban land-Dorset complex, 8 to 18 percent slopes</td>
<td>105</td>
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<td>D34B</td>
<td>Urban land-Hubbard complex, 0 to 8 percent slopes</td>
<td>15,060</td>
<td>3.9</td>
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<td>D35A</td>
<td>Elkiiver-Fordum complex, 0 to 2 percent slopes, occasionally flooded</td>
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<td>D37F</td>
<td>Dorset, bedrock substratum-Rock outcrop complex, 25 to 65 percent slopes</td>
<td>223</td>
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<td>D40A</td>
<td>Kratka loamy fine sand, thick solum, 0 to 2 percent slopes</td>
<td>298</td>
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<tr>
<td>D41C</td>
<td>Urban land-Waukon complex, 6 to 18 percent slopes</td>
<td>33</td>
<td></td>
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<tr>
<td>D43A</td>
<td>Gonninck loam, terrace, 1 to 3 percent slopes</td>
<td>34</td>
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<tr>
<td>GP</td>
<td>Pits, gravel-Udipsamments complex</td>
<td>1,664</td>
<td>0.4</td>
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<tr>
<td>L2B</td>
<td>Malardi-Hawick complex, 1 to 6 percent slopes</td>
<td>4,303</td>
<td>1.1</td>
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<tr>
<td>L2C</td>
<td>Malardi-Hawick complex, 6 to 12 percent slopes</td>
<td>2,922</td>
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<tr>
<td>L2D</td>
<td>Malardi-Hawick complex, 12 to 18 percent slopes</td>
<td>1,151</td>
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<td>L2E</td>
<td>Malardi-Hawick complex, 18 to 35 percent slopes</td>
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<td>L3A</td>
<td>Rasset sandy loam, 0 to 2 percent slopes</td>
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<td>L3B</td>
<td>Rasset sandy loam, 2 to 6 percent slopes</td>
<td>895</td>
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<tr>
<td>L3C</td>
<td>Rasset sandy loam, 6 to 12 percent slopes</td>
<td>623</td>
<td>0.2</td>
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<tr>
<td>L4B</td>
<td>Crowfork loamy sand, 1 to 6 percent slopes</td>
<td>705</td>
<td>0.2</td>
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<td>L4C</td>
<td>Crowfork loamy sand, 6 to 12 percent slopes</td>
<td>916</td>
<td>0.2</td>
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<tr>
<td>L4D</td>
<td>Crowfork loamy sand, 12 to 18 percent slopes</td>
<td>651</td>
<td>0.2</td>
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<tr>
<td>L6A</td>
<td>Biscay loam, 0 to 2 percent slopes</td>
<td>465</td>
<td>0.1</td>
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<tr>
<td>L7A</td>
<td>Biscay loam, depressional, 0 to 1 percent slopes</td>
<td>73</td>
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</tr>
<tr>
<td>L7B</td>
<td>Biscay loam, depressional, 1 to 6 percent slopes</td>
<td>98</td>
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</tr>
<tr>
<td>L7A</td>
<td>Minnetonka silty clay loam, 0 to 2 percent slopes</td>
<td>1,427</td>
<td>0.4</td>
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<tr>
<td>L7B</td>
<td>Kasota silty clay loam, 1 to 6 percent slopes</td>
<td>95</td>
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</tr>
<tr>
<td>L11B</td>
<td>Grays very fine sandy loam, 2 to 8 percent slopes</td>
<td>471</td>
<td>0.1</td>
</tr>
<tr>
<td>L12A</td>
<td>Muskego, Blue Earth, and Houghton soils, ponded, 0 to 1 percent slopes</td>
<td>1,953</td>
<td>0.5</td>
</tr>
<tr>
<td>L13A</td>
<td>Klossner muck, depressional, 0 to 1 percent slopes</td>
<td>389</td>
<td>0.1</td>
</tr>
<tr>
<td>L14A</td>
<td>Houghton muck, depressional, 0 to 1 percent slopes</td>
<td>927</td>
<td>0.2</td>
</tr>
<tr>
<td>L15A</td>
<td>Klossner, Okoboji, and Glencoe soils, ponded, 0 to 1 percent slopes</td>
<td>468</td>
<td>0.1</td>
</tr>
<tr>
<td>L16A</td>
<td>Muskego, Blue Earth, and Houghton soils, ponded, 0 to 1 percent slopes</td>
<td>10,064</td>
<td>2.6</td>
</tr>
<tr>
<td>L17B</td>
<td>Angus-Malardi complex, 2 to 6 percent slopes</td>
<td>906</td>
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</tr>
<tr>
<td>L18A</td>
<td>Shields silty clay loam, 0 to 3 percent slopes</td>
<td>283</td>
<td></td>
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<tr>
<td>L19B</td>
<td>Moon loamy fine sand, 2 to 5 percent slopes</td>
<td>324</td>
<td></td>
</tr>
<tr>
<td>L20B</td>
<td>Fedji loamy fine sand, silty substratum, 2 to 8 percent slopes</td>
<td>202</td>
<td></td>
</tr>
<tr>
<td>L21A</td>
<td>Canisteo loam, 0 to 2 percent slopes</td>
<td>236</td>
<td></td>
</tr>
<tr>
<td>L22A</td>
<td>Lester loam, morainic, 6 to 12 percent slopes, eroded</td>
<td>27,724</td>
<td>7.1</td>
</tr>
<tr>
<td>L22B</td>
<td>Lester loam, morainic, 12 to 18 percent slopes, eroded</td>
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<td>2.4</td>
</tr>
<tr>
<td>L22C</td>
<td>Lester loam, morainic, 18 to 25 percent slopes, eroded</td>
<td>3,506</td>
<td>0.9</td>
</tr>
<tr>
<td>L23A</td>
<td>Lester loam, morainic, 25 to 35 percent slopes, eroded</td>
<td>1,958</td>
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</tr>
<tr>
<td>L24B</td>
<td>Cordova loam, 0 to 2 percent slopes</td>
<td>15,159</td>
<td>3.9</td>
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<tr>
<td>L24A</td>
<td>Glencoe loam, depressional, 0 to 1 percent slopes</td>
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<tr>
<td>L25A</td>
<td>Le Sueur loam, 1 to 3 percent slopes</td>
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<tr>
<td>L26A</td>
<td>Shorewood silty clay loam, 0 to 3 percent slopes</td>
<td>436</td>
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<tr>
<td>L26B</td>
<td>Shorewood silty clay loam, 3 to 6 percent slopes</td>
<td>991</td>
<td>0.3</td>
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<tr>
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<td>Shorewood silty clay loam, 6 to 12 percent slopes, eroded</td>
<td>164</td>
<td></td>
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<tr>
<td>L28A</td>
<td>Suckercreek fine sandy loam, 0 to 2 percent slopes, occasionally flooded</td>
<td>868</td>
<td>0.2</td>
</tr>
<tr>
<td>L29A</td>
<td>Suckercreek fine sandy loam, 0 to 2 percent slopes, occasionally flooded</td>
<td>871</td>
<td></td>
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<tr>
<td>L30A</td>
<td>Hanlon fine sandy loam, 0 to 2 percent slopes, occasionally flooded</td>
<td>117</td>
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<tr>
<td>L31A</td>
<td>Medo soils, depressional, 0 to 1 percent slopes</td>
<td>842</td>
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</tr>
<tr>
<td>L32A</td>
<td>Medo, Dassel, and Biscay soils, ponded, 0 to 1 percent slopes</td>
<td>246</td>
<td></td>
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<tr>
<td>L32B</td>
<td>Hawick loamy sand, 12 to 18 percent slopes</td>
<td>102</td>
<td></td>
</tr>
<tr>
<td>L32D</td>
<td>Hawick loamy sand, 18 to 40 percent slopes</td>
<td>1,171</td>
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<tr>
<td>L35A</td>
<td>Lerdal loam, 1 to 3 percent slopes</td>
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See footnote at the end of the table.
<table>
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<tr>
<th>Map symbol</th>
<th>Soil name</th>
<th>Acres</th>
<th>Percent</th>
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<tbody>
<tr>
<td>L36A</td>
<td>Hamel, overwash-Hamel complex, 1 to 4 percent slopes</td>
<td>15,504</td>
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<tr>
<td>L37B</td>
<td>Angus loam, morainic, 2 to 5 percent slopes</td>
<td>25,459</td>
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<tr>
<td>L38A</td>
<td>Rushriver very fine sandy loam, 0 to 2 percent slopes, occasionally flooded</td>
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<tr>
<td>L39A</td>
<td>Minnesota fine sandy loam, 0 to 2 percent slopes, occasionally flooded</td>
<td>1,111</td>
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<td>L40B</td>
<td>Anguskilkeny complex, 2 to 6 percent slopes</td>
<td>6,800</td>
<td>1.7</td>
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<tr>
<td>L41C2</td>
<td>Lester-Kilkeny complex, 6 to 12 percent slopes, eroded</td>
<td>8,795</td>
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<tr>
<td>L41D2</td>
<td>Lester-Kilkeny complex, 12 to 18 percent slopes, eroded</td>
<td>4,318</td>
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<tr>
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<td>Lester-Kilkeny complex, 18 to 25 percent slopes</td>
<td>1,681</td>
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<tr>
<td>L41F</td>
<td>Lester-Kilkeny complex, 25 to 35 percent slopes</td>
<td>430</td>
<td>0.1</td>
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<tr>
<td>L42B</td>
<td>Kingsley-Gotham complex, 2 to 6 percent slopes</td>
<td>460</td>
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<td>L42C</td>
<td>Kingsley-Gotham complex, 6 to 12 percent slopes</td>
<td>954</td>
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<tr>
<td>L42D</td>
<td>Kingsley-Gotham complex, 12 to 18 percent slopes</td>
<td>660</td>
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<tr>
<td>L42E</td>
<td>Kingsley-Gotham complex, 18 to 25 percent slopes</td>
<td>443</td>
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<td>L42F</td>
<td>Kingsley-Gotham complex, 25 to 35 percent slopes</td>
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<tr>
<td>L43A</td>
<td>Brouillet loam, 0 to 2 percent slopes, occasionally flooded</td>
<td>387 *</td>
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<tr>
<td>L44A</td>
<td>Messel loam, 1 to 3 percent slopes</td>
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<tr>
<td>L45A</td>
<td>Dundas-Cordova complex, 0 to 3 percent slopes</td>
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<tr>
<td>L46A</td>
<td>Tomall loam, 0 to 2 percent slopes</td>
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<tr>
<td>L47A</td>
<td>Eden Prairie sandy loam, 0 to 2 percent slopes</td>
<td>590</td>
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<tr>
<td>L47B</td>
<td>Eden Prairie sandy loam, 2 to 6 percent slopes</td>
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<tr>
<td>L47C</td>
<td>Eden Prairie sandy loam, 6 to 12 percent slopes</td>
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<tr>
<td>L49A</td>
<td>Kingsley-Gotham complex, 12 to 18 percent slopes, eroded</td>
<td>281</td>
<td>*</td>
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<tr>
<td>L50A</td>
<td>Houghton and Muskego soils, depressional, 0 to 1 percent slopes</td>
<td>12,987</td>
<td>3.3</td>
</tr>
<tr>
<td>L52C</td>
<td>Urban land-Lester complex, 2 to 18 percent slopes</td>
<td>11,105</td>
<td>2.9</td>
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<tr>
<td>L52E</td>
<td>Urban land-Lester complex, 18 to 35 percent slopes</td>
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<tr>
<td>L53B</td>
<td>Urban land-Moon complex, 2 to 8 percent slopes</td>
<td>363 *</td>
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<tr>
<td>L54A</td>
<td>Urban land-Dundas complex, 0 to 3 percent slopes</td>
<td>1,328</td>
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<tr>
<td>L55B</td>
<td>Urban land-Malardi complex, 0 to 8 percent slopes</td>
<td>12,043</td>
<td>3.1</td>
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<tr>
<td>L56A</td>
<td>Muskego and Kingsley soils, 0 to 1 percent slopes, frequently flooded</td>
<td>1,396</td>
<td>0.4</td>
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<tr>
<td>L56B</td>
<td>Koronis-Kingsley complex, 2 to 6 percent slopes</td>
<td>1,575</td>
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<tr>
<td>L58C2</td>
<td>Koronis-Kingsley complex, 6 to 12 percent slopes, eroded</td>
<td>1,237</td>
<td>0.3</td>
</tr>
<tr>
<td>L58D2</td>
<td>Koronis-Kingsley complex, 12 to 18 percent slopes, eroded</td>
<td>321 *</td>
<td></td>
</tr>
<tr>
<td>L58E</td>
<td>Koronis-Kingsley complex, 18 to 25 percent slopes</td>
<td>234 *</td>
<td></td>
</tr>
<tr>
<td>L59A</td>
<td>Forestcity-Lundlake, depressional, complex, 0 to 3 percent slopes</td>
<td>671</td>
<td>0.2</td>
</tr>
<tr>
<td>L60B</td>
<td>Angus-Moon complex, 2 to 5 percent slopes</td>
<td>1,440</td>
<td>0.4</td>
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<td>L61C2</td>
<td>Lester-Metes complex, 6 to 12 percent slopes, eroded</td>
<td>1,996</td>
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<tr>
<td>L61D2</td>
<td>Lester-Metes complex, 12 to 18 percent slopes, eroded</td>
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<tr>
<td>L61E</td>
<td>Lester-Metes complex, 18 to 25 percent slopes</td>
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<td>0.1</td>
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<tr>
<td>L62B</td>
<td>Koronis-Kingsley-Malardi complex, 2 to 6 percent slopes</td>
<td>139 *</td>
<td></td>
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<tr>
<td>L62C2</td>
<td>Koronis-Kingsley-Malardi complex, 6 to 12 percent slopes, eroded</td>
<td>714</td>
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<tr>
<td>L62D2</td>
<td>Koronis-Kingsley-Malardi complex, 12 to 18 percent slopes, eroded</td>
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<tr>
<td>L62E</td>
<td>Koronis-Kingsley-Malardi complex, 18 to 35 percent slopes</td>
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<td>L63A</td>
<td>Tadkee-Tadkee, depressional, complex, 0 to 2 percent slopes</td>
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<td>L64A</td>
<td>Houghton and Muskego soils, depressional, 0 to 1 percent slopes</td>
<td>2,288</td>
<td>0.6</td>
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<tr>
<td>L65A</td>
<td>Urban land-Malardi complex, 12 to 18 percent slopes, eroded</td>
<td>622</td>
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<tr>
<td>L66B</td>
<td>Urban land-Malardi complex, 18 to 35 percent slopes</td>
<td>584</td>
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<tr>
<td>L67C2</td>
<td>Metes loamy fine sand, 6 to 12 percent slopes</td>
<td>175</td>
<td>*</td>
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<td>L67D2</td>
<td>Lundlake loam, depressional, 0 to 1 percent slopes</td>
<td>48</td>
<td>*</td>
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<tr>
<td>L68E</td>
<td>Lester-Ridgeton complex, 18 to 25 percent slopes</td>
<td>17</td>
<td>*</td>
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<tr>
<td>L68F</td>
<td>Lester-Ridgeton complex, 25 to 45 percent slopes</td>
<td>111</td>
<td>*</td>
</tr>
<tr>
<td>L69A</td>
<td>Litchfield loamy fine sand, 0 to 3 percent slopes</td>
<td>56</td>
<td>*</td>
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<tr>
<td>L70A</td>
<td>Hamel-Glencoe, depressional, complex, 0 to 3 percent slopes</td>
<td>3,207</td>
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<tr>
<td>L71A</td>
<td>Water, miscellaneous</td>
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</tr>
<tr>
<td>L73A</td>
<td>Urban land-Udorthents, wet substratum, complex, 0 to 2 percent slopes</td>
<td>12,415</td>
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</tr>
<tr>
<td>L74A</td>
<td>Udorthents, wet substratum, 0 to 2 percent slopes</td>
<td>4,938</td>
<td>1.3</td>
</tr>
<tr>
<td>L75A</td>
<td>Udorthents (cut and fill land), 0 to 6 percent slopes</td>
<td>1,527</td>
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</tr>
<tr>
<td>L76A</td>
<td>Urban land-Udipsamments (cut and fill land) complex, 0 to 2 percent slopes</td>
<td>14,091</td>
<td>3.6</td>
</tr>
<tr>
<td>L77A</td>
<td>Urban land-Udorthents, wet substratum, complex, 0 to 2 percent slopes, rarely flooded</td>
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<td>Map symbol</td>
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<td>Acres</td>
<td>Percent</td>
</tr>
<tr>
<td>-----------</td>
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<td>--------</td>
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</tr>
<tr>
<td>U6B</td>
<td>Urban land-Udorthents (cut and fill land) complex, 0 to 6 percent slopes</td>
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<tr>
<td>W</td>
<td>Water</td>
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</tr>
<tr>
<td></td>
<td>Total</td>
<td>389,000</td>
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</tr>
</tbody>
</table>

* Less than 0.1 percent.
This soil survey is an inventory and evaluation of the soils in the survey area. It can be used to adjust land uses to the limitations and potentials of natural resources and the environment. Also, it can help to prevent soil-related failures in land uses.

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

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

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

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

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

**Interpretive Ratings**

The interpretive tables in this survey rate the soils in the survey area for various uses. Many of the tables identify the limitations that affect specified uses and indicate the severity of those limitations. The ratings in these tables are both verbal and numerical.

**Rating Class Terms**

Rating classes are expressed in the tables in terms that indicate the extent to which the soils are limited by all of the soil features that affect a specified use or in terms that indicate the suitability of the soils for the use. Thus, the tables may show limitation classes or suitability classes. Terms for the limitation classes are *not limited*, *somewhat limited*, and *very limited*. The suitability ratings are expressed as *well suited*, *moderately suited*, *poorly suited*, and *unsuited* or as *good*, *fair*, and *poor*.

**Numerical Ratings**

Numerical ratings in the tables indicate the relative severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use and the point at which the soil feature is not a limitation. The limitations appear in order from the most limiting to the least limiting. Thus, if more than one limitation is identified, the most severe limitation is listed first and the least severe one is listed last.

**Crops and Pasture**

General management needed for crops and for hay and pasture is suggested in this section. Climate information for the survey area is provided, the estimated yields of the main crops and hay and pasture plants are listed, the system of land capability classification used by the Natural Resources Conservation Service is explained, and prime farmland is described. Planners of management systems for individual fields or farms should consider obtaining specific information from the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.
Climate

Table 3 gives data on temperature and precipitation for the survey area as recorded at the Minneapolis-St. Paul International Airport during the period from 1961 to 1990. Table 4 shows probable dates of the first freeze in fall and the last freeze in spring. Table 5 provides data on length of the growing season.

In winter, the average temperature is 15.6 degrees F and the average daily minimum temperature is 7.1 degrees. The lowest temperature during the period of record is -34 degrees. In summer, the average temperature is 71 degrees and the average daily maximum temperature is 81 degrees. The highest recorded temperature is 105 degrees.

Growing degree days are shown in table 3. They are equivalent to “heat units.” During the month, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (40 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

The total annual precipitation is about 28 inches. Of this total, about 20 inches, or 70 percent, usually falls in April through September. The growing season for most crops falls within this period.

The average seasonal snowfall is about 56 inches. On an average, 97 days per year have at least 1 inch of snow on the ground.

Cropland Management Considerations

The management concerns affecting the use of the soil map units in the survey area for crops are shown in Table 6. The main concerns in managing nonirrigated cropland are conserving moisture, controlling wind erosion and water erosion, and maintaining soil fertility.

Conserving moisture consists primarily of reducing the evaporation and runoff rates and increasing the water infiltration rate. Applying conservation tillage and conservation cropping systems, farming on the contour, stripcropping, establishing field windbreaks, and leaving crop residue on the surface conserve moisture.

Generally, a combination of several practices is needed to control wind erosion and water erosion. Conservation tillage, stripcropping, field windbreaks, contour farming, conservation cropping systems, crop residue management, terraces, diversions, and grassed waterways help to prevent excessive soil loss.

Measures that are effective in maintaining soil fertility include applying fertilizer, both organic and inorganic, including manure; incorporating crop residue or green manure crops into the soil; and using proper crop rotations. Controlling erosion helps to prevent the loss of organic matter and plant nutrients and thus helps to maintain productivity, although the level of fertility can be reduced even in areas where erosion is controlled. All soils used for nonirrigated crops respond well to applications of fertilizer.

Some of the considerations shown in the table cannot be easily overcome. These are channels, flooding, gullies, and ponding.

Additional considerations are as follows:

- **Lime content**, **limited available water capacity**, **limited content of organic matter**, **potential poor tilth and compaction**, and **restricted permeability**—These limitations can be minimized by incorporating green manure crops, manure, or crop residue into the soil; applying a system of conservation tillage; and using conservation cropping systems. Also, crops may respond well to additions of phosphate fertilizer to soils that have a high content of lime.

- **Potential for ground-water contamination**.—The proper use of nutrients and pesticides can reduce the risk of ground-water contamination.

- **Potential for surface-water contamination**.—The risk of surface-water contamination can be reduced by the proper use of nutrients and pesticides and by conservation farming practices that reduce the runoff rate.

- **Surface crusting**.—This limitation retards seedling development after periods of heavy rainfall.

- **Surface rock fragments**.—This limitation causes rapid wear of tillage equipment. It cannot be easily overcome.

- **Surface stones**.—Stones or boulders on or near the surface can hinder normal tillage unless they are removed.

- **Salt content**.—In areas where this is a limitation, only salt-tolerant crops should be grown.

On irrigated soils the main management concerns are efficient water use, nutrient management, control of erosion, pest and weed control, and timely planting and harvesting for a successful crop. An irrigation system that provides optimum control and distribution of water at minimum cost is needed. Overirrigation wastes water, leaches plant nutrients, and causes erosion. Also, it can increase wetness and soil salinity.

Explanation of Criteria

- **Acid soil**.—The pH is less than 6.1.

- **Channeled**.—The word “channeled” is included in the map unit name.

- **Dense layer**.—The bulk density is 1.80 g/cc or greater within the soil profile.
Depth to rock.—The depth to bedrock is less than 40 inches.

Eroded.—The word “eroded” is included in the map unit name.

Excessive permeability.—Saturated hydraulic conductivity is 42 micrometers per second or more within the soil profile.

Flooding.—Flooding is occasional, frequent, or very frequent.

Gullied.—The word “gullied” is included in the map unit name.

High content of organic matter.—The surface layer has more than 20 percent organic matter.

Lime content.—The pH is 7.4 or more in the surface layer, or the wind erodibility group is 4L.

Limited available water capacity.—The available water capacity calculated to a depth of 60 inches or to a root-limiting layer is 6 inches or less.

Limited content of organic matter.—The content of organic matter is 2 percent or less in the surface layer.

Ponding.—Ponding duration is assigned to the soil. Water is above the surface.

Potential poor tilth and compaction.—The content of clay is 27 percent or more in the surface layer.

Potential for ground-water contamination (by nutrients or pesticides).—The depth to a zone in which the soil moisture status is wet is 4 feet or less, the saturated hydraulic conductivity of any layer is more than 42 micrometers per second, or the depth to bedrock is less than 60 inches.

Potential for surface-water contamination (by nutrients or pesticides).—The soil is occasionally, frequently, or very frequently flooded, is subject to ponding, is assigned to hydrologic group C or D and has a slope of more than 2 percent, is assigned to hydrologic group A and has a slope of more than 6 percent, or is assigned to hydrologic group B, has a slope of 3 percent or more, and has a K factor of more than 0.17.

Previously eroded.—The word “eroded” is included in the map unit name.

Restricted permeability.—Saturated hydraulic conductivity is less than 0.42 micrometer per second within the soil profile.

Salt content.—The electrical conductivity is 4 or more in the surface layer or 8 or more within a depth of 30 inches.

Slope (equipment limitation).—The slope is more than 15 percent.

Surface crusting.—The content of clay is 27 percent or more and the content of organic matter is 2 percent or less in the surface layer.

Surface rock fragments (equipment limitation).—The terms describing the texture of the surface layer include any rock fragment modifier, except for gravelly, channery, stony, very stony, extremely stony, bouldery, very bouldery, and extremely bouldery.

Surface stones (equipment limitation).—The word “stony” or “bouldery” is included in the description of the surface layer, or 0.01 percent or more of the surface is covered by boulders.

Water erosion.—Either the slope is 6 percent or more, or the slope is more than 3 percent and less than 6 percent and the surface layer is not sandy.

Wet soil moisture status.—A zone in which the soil moisture status is wet is within 2.5 feet of the surface.

Wind erosion.—The wind erodibility group is 1, 2, 3, or 4L.

Hydrologic groups are described under the heading “Water Features.” Erosion factors (e.g., K factor) and wind erodibility groups are described under the heading “Physical and Chemical Properties.”

Crop Yield Estimates

The average yields per acre that can be expected of the principal crops and hay and pasture plants under a high level of management are shown in tables 7a and 7b. In any given year, yields may be higher or lower than those indicated in the tables because of variations in rainfall and other climatic factors. The land capability classification of map units in the survey area also is shown in the tables.

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

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

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

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

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

**Pasture and Hayland Interpretations**

Soils are assigned to forage suitability groups according to their suitability for the production of forage vegetation. The soils in each group are similar enough to be suited to the same species of grasses or legumes, have similar limitations and hazards, require similar management, and have similar productivity levels and other responses to management. The forage suitability groups of the soils in the survey area are listed in Table 8. Detailed descriptions of forage suitability groups are available at local offices of the Natural Resources Conservation Service.

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

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

The local office of the Natural Resources Conservation Service or of the Cooperative Extension Service can provide information about forage yields other than those shown in tables 7a and 7b.

**Land Capability Classification**

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not take into account major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects.

Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for woodland or for engineering purposes.

In the capability system, soils generally are grouped at three levels—capability class, subclass, and unit (USDA, 1961). These categories indicate the degree and kinds of limitations affecting mechanized farming systems that produce the more commonly grown field crops, such as corn, small grain, cotton, hay, and field-grown vegetables. Only class and subclass are used in this survey.

**Capability classes**, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use.

If properly managed, soils in classes 1, 2, 3, and 4 are suitable for the mechanized production of commonly grown field crops and for pasture and woodland. The degree of the soil limitations affecting the production of cultivated crops increases progressively from class 1 to class 4. The limitations can affect levels of production and the risk of permanent soil deterioration caused by erosion and other factors.

Soils in classes 5, 6, and 7 are generally not suited to the mechanized production of commonly grown field crops without special management, but they are suitable for plants that provide a permanent cover, such as grasses and trees. The severity of the soil limitations affecting crops increases progressively from class 5 to class 7.

Areas in class 8 are generally not suitable for crops, pasture, or woodland without a level of management that is impractical. These areas may have potential for other uses, such as recreational facilities and wildlife habitat.

**Capability subclasses** identify the dominant kind of limitation in the class. They are designated by adding a small letter, e, w, s, or c, to the class numeral, for example, 2e. The letter e shows that the main hazard is the risk of erosion unless a close-growing plant cover is maintained; w shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); s shows that the soil is limited mainly because it is shallow, droughty, or stony; and c, used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

There are no subclasses in class 1 because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by w, s, or c because the soils in class 5 are subject to little or no
erosion. They have other limitations that restrict their use mainly to pasture, woodland, wildlife habitat, or recreation.

The capability classification of map units in the survey area is given in the yields tables.

Prime Farmland

Prime farmland is of major importance in meeting the Nation’s short- and long-range needs for food and fiber. The acreage of high-quality farmland is limited, and the U.S. Department of Agriculture recognizes that government at local, State, and Federal levels, as well as individuals, must encourage and facilitate the wise use of our Nation’s prime farmland.

Prime farmland soils, as defined by the U.S. Department of Agriculture, are soils that are best suited to food, feed, forage, fiber, and oilseed crops. Such soils have properties that favor the economic production of sustained high yields of crops. The soils need only to be treated and managed by acceptable farming methods. An adequate moisture supply and a sufficiently long growing season are required. Prime farmland soils produce the highest yields with minimal expenditure of energy and economic resources, and farming these soils results in the least damage to the environment.

Prime farmland soils may presently be used as cropland, pasture, or woodland or for other purposes. They either are used for food and fiber or are available for these uses. Urban or built-up land, public land, and water areas cannot be considered prime farmland. Urban or built-up land is any contiguous unit of land 10 acres or more in size that is used for such purposes as housing, industrial, and commercial sites, sites for institutions or public buildings, small parks, golf courses, cemeteries, railroad yards, airports, sanitary landfills, sewage treatment plants, and water-control structures. Public land is land not available for farming in National forests, National parks, military reservations, and State parks.

Prime farmland soils commonly receive an adequate and dependable supply of moisture from precipitation or irrigation. The temperature and growing season are favorable, and the level of acidity or alkalinity and the content of salts and sodium are acceptable. The soils have few, if any, rocks and are permeable to water and air. They are not excessively erodible or saturated with water for long periods, and they are not frequently flooded during the growing season or are protected from flooding. Slopes range mainly from 0 to 6 percent.

Soils in which a saturated zone is high in the profile or soils that are subject to flooding may qualify as prime farmland where these limitations are overcome by drainage measures or flood control. Onsite evaluation is necessary to determine the effectiveness of corrective measures. More information about the criteria for prime farmland can be obtained at the local office of the Natural Resources Conservation Service.

A recent trend in land use has been the conversion of prime farmland to urban and industrial uses. The loss of prime farmland to other uses puts pressure on lands that are less productive than prime farmland.

About 108,680 acres, or nearly 28 percent of the survey area, meets the requirements for prime farmland.

The map units in the survey area that meet the requirements for prime farmland are listed in Table 9. This list does not constitute a recommendation for a particular land use. On some soils included in the table, measures that overcome limitations are needed. The need for these measures is indicated in parentheses after the map unit name. The location of each map unit is shown on the soil maps. The soil qualities that affect use and management are described in the section “Soil Map Unit Descriptions.”

Windbreaks and Environmental Plantings

Windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low- and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, and provide food and cover for wildlife.

Environmental plantings help to beautify and screen houses and other buildings and to abate noise. The plants, mostly evergreen shrubs and trees, are closely spaced. To ensure plant survival, a healthy planting stock of suitable species should be planted properly on a well prepared site and maintained in good condition.

Windbreaks are often planted on land that did not originally support trees. Knowledge of how trees perform on such land can be gained only by observing and recording the performance of trees that have been planted and have survived. Many popular windbreak species are not indigenous to the areas in which they are planted.

Each tree or shrub species has certain climatic and
physiographic limits. Within these parameters, a tree or shrub may grow well or grow poorly, depending on the characteristics of the soil. Each tree or shrub has definable potential heights in a given physiographic area and under a given climate. Accurate definitions of potential heights are necessary when a windbreak is planned and designed.

Table 10 shows the height that locally grown trees and shrubs are expected to reach in 20 years on various soils. The estimates in this table are based on measurements and observation of established plantings that have been given adequate care. They can be used as a guide in planning windbreaks and screens. Additional information on planning windbreaks and screens and planting and caring for trees and shrubs can be obtained from local offices of the Natural Resources Conservation Service or the Cooperative Extension Service or from a nursery.

Windbreak Suitability Groups

Windbreak suitability groups consist of soils in which the kinds and degrees of the hazards and limitations that affect the survival and growth of trees and shrubs in windbreaks are about the same. The windbreak suitability groups assigned to the soils in the survey area are listed in Table 11.

Group 1 consists of soils that are somewhat poorly drained or moderately well drained, are rapidly permeable to moderately slowly permeable, and do not have free carbonates in the upper 20 inches.

Group 1K consists of soils that are somewhat poorly drained or moderately well drained, are rapidly permeable to moderately slowly permeable, and have free carbonates within 20 inches of the surface. These soils may be very slightly saline or slightly saline (the electrical conductivity is 2 to 8).

Group 2 consists of poorly drained soils that have been artificially drained and do not have free carbonates in the upper 20 inches. Permeability varies.

Group 2H consists of very poorly drained soils that have been artificially drained and have more than 16 inches of organic material. Permeability varies.

Group 2K consists of poorly drained or very poorly drained soils that have been artificially drained and have free carbonates within 20 inches of the surface. Permeability varies. These soils may be very slightly saline or slightly saline (the electrical conductivity is 2 to 8).

Group 2W consists of very poorly drained soils that are subject to ponding and have been artificially drained. It includes soils that have an organic surface layer up to 16 inches thick. Permeability varies.

Group 3 consists of soils that are well drained or moderately well drained and are loamy or silty throughout. Permeability is moderate or moderately slow. These soils do not have free carbonates in the upper 20 inches.

Group 4 consists of soils that are well drained, moderately well drained, or somewhat poorly drained and have a silty or loamy surface layer and a clayey subsoil. Permeability is slow or very slow.

Group 4C consists of soils that are well drained, moderately well drained, or somewhat poorly drained and have a clayey surface layer and subsoil. Permeability is slow or very slow.

Group 4F consists of soils that are well drained, moderately well drained, or somewhat poorly drained and have a substratum of dense till. Permeability is slow or very slow.

Group 5 consists of soils that are excessively drained to moderately well drained and have a moderate available water capacity. These soils are dominantly fine sandy loam or sandy loam, but some are sandy in the upper part and loamy in the lower part.

Group 6D consists of excessively drained to moderately well drained, loamy soils that have bedrock at a depth of 20 to 40 inches. These soils have a low or moderate available water capacity.

Group 6G consists of excessively drained to moderately well drained soils that are loamy in the upper part and have sand or sand and gravel at a depth of 20 to 40 inches. These soils have a low or moderate available water capacity.

Group 7 consists of excessively drained to well drained soils that are dominantly loamy fine sand or coarser textured and are shallow to sand or to sand and gravel. These soils have a low available water capacity.

Group 8 consists of excessively drained to well drained, loamy soils that have free carbonates within 20 inches of the surface.

Group 9W consists of soils that are somewhat poorly drained, poorly drained, or very poorly drained and are moderately saline (the electrical conductivity is 8 to 16).

Group 10 consists of soils or miscellaneous areas that generally are not suitable for windbreaks. One or more characteristics, such as soil depth, texture, wetness, available water capacity, or slope, limit the planting, survival, or growth of trees and shrubs.

Recreation

The soils of the survey area are rated in tables 12a and 12b according to limitations that affect their suitability for recreation. The ratings are both verbal...
and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses.

Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected.

Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected.

Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in the tables can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, and water management.

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas.

The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Picnic areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Playgrounds require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Paths and trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These
properties are stoniness, depth to a zone in which the soil moisture status is wet, ponding, flooding, slope, and texture of the surface layer. 

Off-road motorcycle trails require little or no site preparation. They are not covered with surfacing material or vegetation. Considerable compaction of the soil material is likely. The ratings are based on the soil properties that influence erodibility, trafficability, dustiness, and the ease of revegetation. These properties are stoniness, slope, depth to a zone in which the soil moisture status is wet, ponding, flooding, and texture of the surface layer. 

Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a zone in which the soil moisture status is wet; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

Wildlife Habitat

Soils affect the kind and amount of vegetation that is available to wildlife as food and cover. They also affect the construction of water impoundments. If food, cover, or water is missing, inadequate, or inaccessible, wildlife will be scarce or will not inhabit the area.

If the soils have potential for habitat development, wildlife habitat can be created or improved by planting appropriate vegetation, properly managing the existing plant cover, and fostering the natural establishment of desirable plants.

In table 13 the soils in the survey area are rated according to their potential for providing habitat for various kinds of wildlife. This information can be used in planning parks, wildlife refuges, nature study areas, and other developments for wildlife; in selecting soils that are suitable for establishing, improving, or maintaining specific elements of wildlife habitat; and in determining the intensity of management needed for each element of the habitat.

The potential of the soil is rated good, fair, poor, or very poor. A rating of good indicates that the element or kind of habitat is easily established, improved, or maintained. Few or no limitations affect management, and satisfactory results can be expected. A rating of fair indicates that the element or kind of habitat can be established, improved, or maintained in most places. Slightly intensive management is required for satisfactory results. A rating of poor indicates that limitations are severe for the designated element or kind of habitat. Habitat can be created, improved, or maintained in most places, but management is difficult and must be intensive. A rating of very poor indicates that restrictions for the element or kind of habitat are very severe and that unsatisfactory results can be expected. Creating, improving, or maintaining habitat is impractical or impossible.

The elements of wildlife habitat are described in the following paragraphs.

Grain and seed crops are domestic grains and seed-producing herbaceous plants used by wildlife. Examples are corn, soybeans, wheat, oats, and barley.

Grasses and legumes are domestic perennial grasses and herbaceous legumes planted for wildlife food and cover. Examples are bromegrass, timothy, orchardgrass, clover, alfalfa, and wheatgrass.

Wild herbaceous plants are native or naturally established grasses and forbs, including weeds, that provide food and cover for wildlife. Examples are bluestems, indiangrass, blueberry, goldenrod, lambsquarters, dandelions, blackberry, ragweed, and wheatgrass.

The major soil properties affecting the growth of grain and forage crops and wild herbaceous plants are depth of the root zone, texture of the surface layer, the amount of water available to plants, wetness, salinity, and flooding. The length of the growing season also is important.

Hardwood trees and woody understory produce nuts or other fruit, buds, catkins, twigs, bark, and foliage that wildlife eat. Examples are oak, poplar, hickory, birch, maple, green ash, willow, and American elm.

Coniferous plants are cone-bearing trees, shrubs, or ground cover that provide habitat or supply food in the form of browse, seed, or fruit-like cones. Examples are pine, spruce, cedar, and tamarack.

The major soil properties affecting the growth of hardwood and coniferous trees and shrubs are depth of the root zone, the amount of water available to plants, and wetness.

Wetland plants are annual and perennial wild herbaceous plants that grow on moist or wet sites. Submerged or floating aquatic plants are excluded. Wetland plants produce food or cover for wetland wildlife. Examples of these plants are smartweeds,
wild millet, rushes, sedges, bulrushes, wild rice, arrowhead, waterplantain, cattail, prairie cordgrass, bluejoint grass, asters, and beggarticks.

The major soil properties affecting wetland plants are texture of the surface layer, wetness, acidity or alkalinity, and slope.

Shallow water areas have an average depth of less than 5 feet. They are useful as habitat for some wildlife species. They are naturally wet areas or are created by dams, levees, or water-control measures in marshes or streams. Examples are waterfowl feeding areas, wildlife watering developments, beaver ponds, and other wildlife ponds.

The major soil properties affecting shallow water areas are depth to bedrock, wetness, surface stoniness, slope, and permeability.

The habitat for various kinds of wildlife is described in the following paragraphs.

Habitat for openland wildlife consists of cropland, pasture, meadows, and areas that are overgrown with grasses, herbs, and shrubs. These areas produce grain and seed crops, grasses and legumes, and wild herbaceous plants. The wildlife attracted to these areas include Hungarian partridge, ring-necked pheasant, bobwhite quail, sharp-tailed grouse, meadowlark, field sparrow, killdeer, cottontail rabbit, and red fox.

Habitat for woodland wildlife consists of areas of hardwoods or conifers or a mixture of these and associated grasses, legumes, and wild herbaceous plants. The wildlife attracted to this habitat include wild turkey, ruffed grouse, thrushes, woodpeckers, owls, tree squirrels, porcupine, raccoon, and white-tailed deer.

Habitat for wetland wildlife consists of open, marshy or swampy shallow water areas, bogs, or flood plains that support water-tolerant plants. The wildlife attracted to this habitat include ducks, geese, herons, bitterns, rails, kingfishers, muskrat, otter, mink, and beaver.

Engineering

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

Information in this section is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

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

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

Soil properties, site features, and observed performance were considered in determining the ratings in this section. During the fieldwork for this soil survey, determinations were made about particle-size distribution, liquid limit, plasticity index, soil reaction, depth to bedrock, hardness of bedrock within 5 to 7 feet of the surface, soil wetness, depth to a zone in which the soil moisture status is wet, ponding, slope, likelihood of flooding, natural soil structure aggregation, and soil density. Data were collected about kinds of clay minerals, mineralogy of the sand and silt fractions, and the kinds of adsorbed cations. Estimates were made for erodibility, permeability, corrosivity, linear extensibility, available water capacity, and other behavioral characteristics affecting engineering uses.

This information can be used to evaluate the potential of areas for residential, commercial, industrial, and recreational uses; make preliminary estimates of construction conditions; evaluate alternative routes for roads, streets, highways, pipelines, and underground cables; plan detailed onsite investigations of soils and geology; locate potential sources of gravel, sand, earthfill, and topsoil; plan drainage systems, irrigation systems, ponds, terraces, and other structures for soil and water conservation; and predict performance of proposed small structures and pavements by comparing the performance of existing similar structures on the same or similar soils.

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

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

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. Tables 14a and 14b show the degree and kind of soil limitations that affect dwellings with and without basements, small commercial buildings, local roads and streets, shallow excavations, and lawns and landscaping.

The ratings in the tables are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development.

Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected.

Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected.

Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 7 feet. The ratings for dwellings are based on the soil properties that affect the load-supporting capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a zone in which the soil moisture status is wet, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a zone in which the soil moisture status is wet, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a zone in which the soil moisture status is wet, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsoil, linear extensibility (shrink-swell potential), and compressibility (which is inferred from the Unified classification). The properties that affect the ease and amount of excavation include flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to a zone in which the soil moisture status is wet, ponding, flooding, and slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.
status is wet, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to a zone in which the soil moisture status is wet, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

**Lawn**s and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a zone in which the soil moisture status is wet; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer.

**Construction Materials**

Tables [15a and 15b] give information about the soils as potential sources of gravel, sand, reclamation material, roadfill, and topsoil. Normal compaction, minor processing, and other standard construction practices are assumed.

Sand and gravel are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. In table 15a, only the likelihood of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material. The properties used to evaluate the soil as a source of sand or gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the bottom layer of the soil contains sand or gravel, the soil is considered a likely source regardless of thickness. The assumption is that the sand or gravel layer below the depth of observation exceeds the minimum thickness.

The soils are rated good, fair, or poor as potential sources of sand and gravel. A rating of good or fair means that the source material is likely to be in or below the soil. The bottom layer and the thickest layer of the soils are assigned numerical ratings. These ratings indicate the likelihood that the layer is a source of sand or gravel. The number 0.00 indicates that the layer is a poor source. The number 1.00 indicates that the layer is a good source. A number between 0.00 and 1.00 indicates the degree to which the layer is a likely source.

The soils are rated good, fair, or poor as potential sources of reclamation material, roadfill, and topsoil. The features that limit the soils as sources of these materials are specified in the tables. The numerical ratings given after the specified features indicate the degree to which the features limit the soils as sources of reclamation material, roadfill, or topsoil. The lower the number, the greater the limitation.

Reclamation material is used in areas that have been drastically disturbed by surface mining or similar activities. When these areas are reclaimed, layers of soil material or unconsolidated geological material, or both, are replaced in a vertical sequence. The reconstructed soil favors plant growth. The ratings in the table do not apply to quarries and other mined areas that require an offsite source of reclamation material. The ratings are based on the soil properties that affect erosion and stability of the surface and the productive potential of the reconstructed soil. These properties include the content of sodium, salts, and calcium carbonate; reaction; available water capacity; erodibility; texture; content of rock fragments; and content of organic matter and other features that affect fertility.

Roadfill is soil material that is excavated in one place and used in road embankments in another place. In table 15b, the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments.

The ratings are for the whole soil, from the surface to a depth of about 5 feet. It is assumed that soil layers will be mixed when the soil material is excavated and spread.

The ratings are based on the amount of suitable material and on soil properties that affect the ease of excavation and the performance of the material after it is in place. The thickness of the suitable material is a major consideration. The ease of excavation is affected by large stones, depth to a zone in which the soil moisture status is wet, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHO classification of the soil) and linear extensibility (shrink-swell potential).

Topsoil is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area. The ratings are based on the soil properties that affect plant growth; the ease of excavating, loading,
and spreading the material; and reclamation of the borrow area. Toxic substances, soil reaction, and the properties that are inferred from soil texture, such as available water capacity and fertility, affect plant growth. The ease of excavating, loading, and spreading is affected by rock fragments, slope, depth to a zone in which the soil moisture status is wet, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope, depth to a zone in which the soil moisture status is wet, rock fragments, depth to bedrock or a cemented pan, and toxic material.

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

**Water Management**

Table 16 gives information on the soil properties and site features that affect water management. The degree and kind of soil limitations are given for pond reservoir areas; embankments, dikes, and levees; and aquifer-fed excavated ponds. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses.

*Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected.

*Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected.

*Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

*Pond reservoir areas* hold water behind a dam or embankment. Soils best suited to this use have low seepage potential in the upper 60 inches. The seepage potential is determined by the permeability of the soil and the depth to fractured bedrock or other permeable material. Excessive slope can affect the storage capacity of the reservoir area.

*Embankments, dikes, and levees* are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. Embankments that have zoned construction (core and shell) are not considered. In this table, the soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of about 5 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the ability of the natural soil to support an embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A seasonal zone in which the soil moisture status is wet affects the amount of usable material. It also affects trafficability.

*Aquifer-fed excavated ponds* are pits or dugouts that extend to a ground-water aquifer or to a depth below a permanent zone in which the soil moisture status is wet. Excluded are ponds that are fed only by surface runoff and embankment ponds that impound water 3 feet or more above the original surface. Excavated ponds are affected by depth to a permanent zone in which the soil moisture status is wet, permeability of the aquifer, and quality of the water as inferred from the salinity of the soil. Depth to bedrock and the content of large stones affect the ease of excavation.
Table 3.—Temperature and Precipitation

(Recorded in the period 1961-90 at Minneapolis-St. Paul, Minnesota)

<table>
<thead>
<tr>
<th>Month</th>
<th>Temperature</th>
<th>Precipitation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Average</td>
<td>Average</td>
</tr>
<tr>
<td></td>
<td>daily</td>
<td>daily</td>
</tr>
<tr>
<td></td>
<td>maximum</td>
<td>minimum</td>
</tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>°F</td>
<td>°F</td>
</tr>
<tr>
<td>January</td>
<td>20.6</td>
<td>2.6</td>
</tr>
<tr>
<td>February</td>
<td>26.4</td>
<td>8.8</td>
</tr>
<tr>
<td>March</td>
<td>39.1</td>
<td>22.3</td>
</tr>
<tr>
<td>April</td>
<td>56.5</td>
<td>35.9</td>
</tr>
<tr>
<td>May</td>
<td>69.4</td>
<td>47.6</td>
</tr>
<tr>
<td>June</td>
<td>78.8</td>
<td>57.5</td>
</tr>
<tr>
<td>July</td>
<td>83.9</td>
<td>63.0</td>
</tr>
<tr>
<td>August</td>
<td>80.6</td>
<td>60.1</td>
</tr>
<tr>
<td>September</td>
<td>70.6</td>
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<tr>
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<td>58.8</td>
<td>38.8</td>
</tr>
<tr>
<td>November</td>
<td>41.0</td>
<td>25.1</td>
</tr>
<tr>
<td>December</td>
<td>25.5</td>
<td>10.0</td>
</tr>
<tr>
<td>Yearly:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average</td>
<td>54.3</td>
<td>35.2</td>
</tr>
<tr>
<td>Extreme</td>
<td>105</td>
<td>-34</td>
</tr>
<tr>
<td>Total</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

* A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (40 degrees F).
Table 4.--Freeze Dates in Spring and Fall
(Recorded in the period 1961-90 at Minneapolis-St. Paul, Minnesota)

<table>
<thead>
<tr>
<th>Probability</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24 °F</td>
</tr>
<tr>
<td></td>
<td>or lower</td>
</tr>
</tbody>
</table>

Last freezing temperature in spring:

<table>
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<tr>
<th>Probability</th>
<th>Date</th>
<th>Date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year in 10</td>
<td>Apr. 20</td>
<td>May 5</td>
<td>May 15</td>
</tr>
<tr>
<td>later than--</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 years in 10</td>
<td>Apr. 16</td>
<td>Apr. 29</td>
<td>May 10</td>
</tr>
<tr>
<td>later than--</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 years in 10</td>
<td>Apr. 7</td>
<td>Apr. 19</td>
<td>May 1</td>
</tr>
<tr>
<td>later than--</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

First freezing temperature in fall:

<table>
<thead>
<tr>
<th>Probability</th>
<th>Date</th>
<th>Date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 year in 10</td>
<td>Oct. 14</td>
<td>Sept. 26</td>
<td>Sept. 19</td>
</tr>
<tr>
<td>earlier than--</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 years in 10</td>
<td>Oct. 20</td>
<td>Oct. 2</td>
<td>Sept. 24</td>
</tr>
<tr>
<td>earlier than--</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 years in 10</td>
<td>Oct. 30</td>
<td>Oct. 14</td>
<td>Oct. 4</td>
</tr>
<tr>
<td>earlier than--</td>
<td></td>
<td></td>
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</table>

Table 5.--Growing Season
(Recorded in the period 1961-90 at Minneapolis-St. Paul, Minnesota)

<table>
<thead>
<tr>
<th>Probability</th>
<th>Daily minimum temperature during growing season</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Higher than 24 °F</td>
</tr>
<tr>
<td></td>
<td>Days</td>
</tr>
<tr>
<td>9 years in 10</td>
<td>184</td>
</tr>
<tr>
<td>8 years in 10</td>
<td>191</td>
</tr>
<tr>
<td>5 years in 10</td>
<td>204</td>
</tr>
<tr>
<td>2 years in 10</td>
<td>217</td>
</tr>
<tr>
<td>1 year in 10</td>
<td>224</td>
</tr>
</tbody>
</table>
Table 6.—Cropland Management Considerations

(See text for a description of the considerations listed in this table. Absence of an entry indicates that the map unit or component is generally not suited to use as cropland)

<table>
<thead>
<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>Cropland management considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1B: Anoka, terrace-----------</td>
<td>55</td>
<td>Limited available water capacity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potential for ground-water contamination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wind erosion</td>
</tr>
<tr>
<td>Zimmerman, terrace-----------</td>
<td>40</td>
<td>Excessive permeability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Limited available water capacity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Limited content of organic matter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potential for ground-water contamination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wind erosion</td>
</tr>
<tr>
<td>Kost-------------------------</td>
<td>5</td>
<td>Excessive permeability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Limited available water capacity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potential for ground-water contamination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wind erosion</td>
</tr>
<tr>
<td>D1C: Anoka, terrace-----------</td>
<td>45</td>
<td>Limited available water capacity</td>
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<tr>
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<td>Potential for ground-water contamination</td>
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<tr>
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<td>Potential for surface-water contamination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water erosion</td>
</tr>
<tr>
<td>Zimmerman, terrace-----------</td>
<td>45</td>
<td>Excessive permeability</td>
</tr>
<tr>
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<td>Limited available water capacity</td>
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<td></td>
<td></td>
<td>Potential for ground-water contamination</td>
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<td></td>
<td>Potential for surface-water contamination</td>
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<tr>
<td></td>
<td></td>
<td>Water erosion</td>
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<tr>
<td></td>
<td></td>
<td>Wind erosion</td>
</tr>
<tr>
<td>Kost-------------------------</td>
<td>10</td>
<td>Excessive permeability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Limited available water capacity</td>
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<tr>
<td></td>
<td></td>
<td>Potential for ground-water contamination</td>
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<tr>
<td></td>
<td></td>
<td>Potential for surface-water contamination</td>
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<tr>
<td></td>
<td></td>
<td>Water erosion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wind erosion</td>
</tr>
<tr>
<td>D2A: Elkriver, rarely flooded-----</td>
<td>85</td>
<td>Excessive permeability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potential for ground-water contamination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wind erosion</td>
</tr>
<tr>
<td>Mosford, rarely flooded------</td>
<td>10</td>
<td>Excessive permeability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Limited available water capacity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potential for ground-water contamination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wind erosion</td>
</tr>
<tr>
<td>Elkriver, occasionally flooded---------------------</td>
<td>5</td>
<td>Flooding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Excessive permeability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Potential for ground-water contamination</td>
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<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Wet soil moisture status</td>
</tr>
<tr>
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<td>Wind erosion</td>
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(continued)
<table>
<thead>
<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>Cropland management considerations</th>
</tr>
</thead>
</table>
| D3A: Elkriver, occasionally flooded | 80 | Flooding  
Excessive permeability  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status  
Wind erosion |
| Fordum, frequently flooded | 15 | Flooding  
Excessive permeability  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status  
Wind erosion |
| Winterfield, occasionally flooded | 5 | Flooding  
Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status  
Wind erosion |
| D4A: Dorset | 90 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Wind erosion |
| Verndale, acid substratum | 8 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Wind erosion |
| Almora | 2 | Excessive permeability  
Potential for ground-water contamination |
| D4B: Dorset | 85 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Water erosion  
Wind erosion |
| Verndale, acid substratum | 10 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Water erosion  
Wind erosion |
| Almora | 5 | Excessive permeability  
Potential for ground-water contamination |
| D4C: Dorset | 75 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Water erosion  
Wind erosion |
### Table 6.--Cropland Management Considerations--Continued

<table>
<thead>
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<th>Pct. of map unit</th>
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<td>Limited available water capacity</td>
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<td></td>
<td>Potential for ground-water contamination</td>
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<tr>
<td></td>
<td></td>
<td>Potential for surface-water contamination</td>
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<td></td>
<td></td>
<td>Water erosion</td>
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<td></td>
<td></td>
<td>Wind erosion</td>
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<tr>
<td>Almora</td>
<td>10</td>
<td>Excessive permeability</td>
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<td></td>
<td>Potential for ground-water contamination</td>
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<tr>
<td>D5B: Dorset</td>
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<td>Water erosion</td>
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<td>Wind erosion</td>
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<td>Wind erosion</td>
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<td>Water erosion</td>
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<td>Wind erosion</td>
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<td>Water erosion</td>
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<td>Wind erosion</td>
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<td>Excessive permeability</td>
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<td>Water erosion</td>
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Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status |
| Fordum, occasionally flooded | 10 | Flooding  
Excessive permeability  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status |
| D20A: Isan | 85 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Wet soil moisture status  
Wind erosion |
| Isan, depressional | 10 | Excessive permeability  
Limited available water capacity  
Ponding  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status  
Wind erosion |
| Duels | 5 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Wind erosion |
| D21A: Isan, depressional | 85 | Excessive permeability  
Limited available water capacity  
Ponding  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status  
Wind erosion |
| Isan | 15 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Wet soil moisture status  
Wind erosion |
| D23A: Southhaven | 90 | Excessive permeability  
Potential for ground-water contamination |
| Dorset | 5 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Water erosion  
Wind erosion |
| Mosford | 5 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Wind erosion |
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Potential for ground-water contamination  
Potential for surface-water contamination  
Water erosion  
Wet soil moisture status  |
| D29B: Urban land------------------- | 70 | Not applicable  |
| Hubbard, bedrock substratum-- | 20 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wind erosion  |
| Hubbard---------------------- | 5 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wind erosion  |
| Mosford---------------------- | 5 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Potential for surface-water contamination  
Water erosion  
Wind erosion  |
| D30A: Seelyeville, surface drained | 45 | High content of organic matter  
Ponding  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status  
Wind erosion  |
| Markey, surface drained------- | 45 | Excessive permeability  
High content of organic matter  
Ponding  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status  
Wind erosion  |
| Mineral soil, surface drained | 10 | Excessive permeability  
Limited available water capacity  
Ponding  
Potential for ground-water contamination  
Potential for surface-water contamination  
Wet soil moisture status  
Wind erosion  |
| D31A: Urban land------------------- | 70 | Not applicable  |
| Duelm------------------------ | 20 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Wind erosion  |
| Hubbard---------------------- | 5 | Excessive permeability  
Limited available water capacity  
Potential for ground-water contamination  
Wind erosion  |
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Water erosion |
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Previously eroded  
Water erosion |
| Terril----------------------- | 12 | Potential for ground-water contamination  
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Previously eroded  
Water erosion |
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Previously eroded  
Wet soil moisture status |
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Potential for surface-water contamination  
Previously eroded  
Water erosion |
| Terril----------------------- | 10 | Potential for ground-water contamination  
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Previously eroded  
Water erosion |
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Previously eroded  
Wet soil moisture status |
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Previously eroded  
Water erosion |
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Water erosion |
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Water erosion |
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Table 7a.--Land Capability and Yields per Acre of Crops

(Yields in the "N" columns are for nonirrigated areas; those in the "I" columns are for irrigated areas. Yields are those that can be expected under a high level of management. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil.)

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Table 7a.--Land Capability and Yields per Acre of Crops--Continued

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**U2A.**
- Udorthents, wet substratum
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### Table 7b. -- Land Capability and Yields per Acre of Crops

(Yields in the "N" columns are for nonirrigated areas; those in the "I" columns are for irrigated areas. Yields are those that can be expected under a high level of management. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

<table>
<thead>
<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>Land capability</th>
<th>Irish potatoes</th>
<th>Soybeans</th>
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Table 7b.--Land Capability and Yields per Acre of Crops--Continued

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<td>Ridgeton</td>
<td>5</td>
<td>103</td>
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<tr>
<td>Hamel</td>
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<td>103</td>
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<td>103</td>
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<td>90</td>
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<td>Cokato</td>
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<td>Belview</td>
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<td>Pct. of map unit</td>
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<td>L131A: Litchfield------------</td>
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<tr>
<td>Darfur-----------------------</td>
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<td>5</td>
</tr>
<tr>
<td>Crowfork---------------------</td>
<td>5</td>
<td>103</td>
<td>22</td>
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<tr>
<td>L132A: Hamel-----------------</td>
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<tr>
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<td>Terril-----------------------</td>
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<td>U2A. Udorthents, wet</td>
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<td>substratum</td>
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<td>U4A. Urban land- Udipsamments (cut and fill land)</td>
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<td>U6B. Urban land-Udorthents</td>
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<td>(cut and fill land)</td>
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<tr>
<td>W. Water</td>
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</table>
Table 9.—Prime Farmland

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name)

<table>
<thead>
<tr>
<th>Map symbol</th>
<th>Soil name</th>
</tr>
</thead>
<tbody>
<tr>
<td>D2A</td>
<td>Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded</td>
</tr>
<tr>
<td>D3A</td>
<td>Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded (where protected from flooding or not frequently flooded during the growing season)</td>
</tr>
<tr>
<td>D1A</td>
<td>Forada sandy loam, 0 to 2 percent slopes (where drained)</td>
</tr>
<tr>
<td>D11A</td>
<td>Lindaas silt loam, 0 to 2 percent slopes (where drained)</td>
</tr>
<tr>
<td>D12B</td>
<td>Bygland silt loam, MAP &gt;25, 2 to 6 percent slopes</td>
</tr>
<tr>
<td>D21A</td>
<td>Southaven loam, 0 to 2 percent slopes</td>
</tr>
<tr>
<td>D24A</td>
<td>Sedgeville loam, 0 to 2 percent slopes, occasionally flooded (where drained and either protected from flooding or not frequently flooded during the growing season)</td>
</tr>
<tr>
<td>D43A</td>
<td>Gonvick loam, terrace, 1 to 3 percent slopes</td>
</tr>
<tr>
<td>L3A</td>
<td>Rasset sandy loam, 0 to 2 percent slopes</td>
</tr>
<tr>
<td>L3B</td>
<td>Rasset sandy loam, 2 to 6 percent slopes</td>
</tr>
<tr>
<td>L6A</td>
<td>Biscay loam, 0 to 2 percent slopes (where drained)</td>
</tr>
<tr>
<td>L8A</td>
<td>Darfur sandy loam, 0 to 2 percent slopes (where drained)</td>
</tr>
<tr>
<td>L9A</td>
<td>Minnetonka silt loam, 0 to 2 percent slopes (where drained)</td>
</tr>
<tr>
<td>L10B</td>
<td>Kasota silt loam, 1 to 6 percent slopes</td>
</tr>
<tr>
<td>L11B</td>
<td>Grays very fine sandy loam, 2 to 8 percent slopes</td>
</tr>
<tr>
<td>L17B</td>
<td>Angus-Malardi complex, 2 to 6 percent slopes</td>
</tr>
<tr>
<td>L18A</td>
<td>Shields silt loam, 0 to 3 percent slopes (where drained)</td>
</tr>
<tr>
<td>L21A</td>
<td>Canisteo loam, 0 to 2 percent slopes (where drained)</td>
</tr>
<tr>
<td>L23A</td>
<td>Cordova loam, 0 to 2 percent slopes (where drained)</td>
</tr>
<tr>
<td>L24A</td>
<td>Glencoe loam, depressional, 0 to 1 percent slopes (where drained)</td>
</tr>
<tr>
<td>L25A</td>
<td>Le Sueur loam, 1 to 3 percent slopes</td>
</tr>
<tr>
<td>L26A</td>
<td>Shorewood silt loam, 0 to 3 percent slopes</td>
</tr>
<tr>
<td>L26B</td>
<td>Shorewood silt loam, 3 to 6 percent slopes</td>
</tr>
<tr>
<td>L28A</td>
<td>Suckercreek fine sandy loam, 0 to 2 percent slopes, occasionally flooded (where drained and either protected from flooding or not frequently flooded during the growing season)</td>
</tr>
<tr>
<td>L29A</td>
<td>Hanlon fine sandy loam, 0 to 2 percent slopes, occasionally flooded (where protected from flooding or not frequently flooded during the growing season)</td>
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<tr>
<td>L35A</td>
<td>Lerdal loam, 1 to 3 percent slopes</td>
</tr>
<tr>
<td>L36A</td>
<td>Hamel, overwash-Hamel complex, 1 to 4 percent slopes (where drained)</td>
</tr>
<tr>
<td>L37B</td>
<td>Angus loam, morainic, 2 to 5 percent slopes</td>
</tr>
<tr>
<td>L38A</td>
<td>Rushriver very fine sandy loam, 0 to 2 percent slopes, occasionally flooded (where drained and either protected from flooding or not frequently flooded during the growing season)</td>
</tr>
<tr>
<td>L39A</td>
<td>Minneiska fine sandy loam, 0 to 2 percent slopes, occasionally flooded (where protected from flooding or not frequently flooded during the growing season)</td>
</tr>
<tr>
<td>L40B</td>
<td>Angus-Kilkenny complex, 2 to 6 percent slopes</td>
</tr>
<tr>
<td>L43A</td>
<td>Brouillett loam, 0 to 2 percent slopes, occasionally flooded (where protected from flooding or not frequently flooded during the growing season)</td>
</tr>
<tr>
<td>L44A</td>
<td>Nessel loam, 1 to 3 percent slopes</td>
</tr>
<tr>
<td>L45A</td>
<td>Dundas-Cordova complex, 0 to 3 percent slopes (where drained)</td>
</tr>
<tr>
<td>L46A</td>
<td>Tomall loam, 0 to 2 percent slopes</td>
</tr>
<tr>
<td>L56B</td>
<td>Koronis-Kingsley complex, 2 to 6 percent slopes</td>
</tr>
<tr>
<td>L59A</td>
<td>Forestcity-Lundlake, depressional, complex (where drained)</td>
</tr>
<tr>
<td>L60B</td>
<td>Angus-Moon complex, 2 to 5 percent slopes</td>
</tr>
<tr>
<td>L62B</td>
<td>Koronis-Kingsley-Malardi complex, 2 to 6 percent slopes</td>
</tr>
<tr>
<td>L72A</td>
<td>Lundlake loam, depressional, 0 to 1 percent slopes (where drained)</td>
</tr>
<tr>
<td>L132A</td>
<td>Hamel-Glencoe, depressional, complex, 0 to 3 percent slopes (where drained)</td>
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</table>
Table 10.--Windbreaks and Environmental Plantings

(Only the map units that include soils suitable for windbreaks and environmental plantings are listed. Absence of an entry indicates that trees generally do not grow to the given height)

<table>
<thead>
<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>Trees having predicted 20-year average height, in feet, of--</th>
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<tbody>
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<td>&lt;8</td>
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<tr>
<td>D1B: Anoka, terrace-----------</td>
<td>55</td>
<td>Cotoneaster, western sandcherry, Nanking cherry, common chokecherry, American basswood, Eastern white pine, Siberian elm, jack pine, imperial Carolina poplar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>common lilac, late Black Hills spruce, Norway spruce, cottonwood, eastern cottonwood</td>
</tr>
<tr>
<td></td>
<td></td>
<td>crabapple, silver Russian-olive, black Hills spruce, Norway spruce, cottonwood, eastern cottonwood</td>
</tr>
<tr>
<td></td>
<td></td>
<td>buffaloberry, Amur Scotch pine, green red pine, silver maple, Harbin pear, ash, white spruce, red pine, silver Manchurian maple peashrub, blue spruce, common hackberry, eastern redcedar, northern whitecedar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>crabapple, Siberian maple</td>
</tr>
<tr>
<td></td>
<td></td>
<td>crabapple, Siberian maple</td>
</tr>
<tr>
<td></td>
<td></td>
<td>peashrub, blue spruce, common hackberry, eastern redcedar, northern whitecedar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nanking cherry, American basswood, Eastern white pine, Siberian elm, jack pine, imperial Carolina poplar</td>
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<tr>
<td></td>
<td></td>
<td>common chokecherry, American basswood, Eastern white pine, Siberian elm, jack pine, imperial Carolina poplar</td>
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<td>crabapple, silver Russian-olive, black Hills spruce, Norway spruce, cottonwood, eastern cottonwood</td>
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<td>buffaloberry, Amur Scotch pine, green red pine, silver maple, Harbin pear, ash, white spruce, red pine, silver Manchurian maple peashrub, blue spruce, common hackberry, eastern redcedar, northern whitecedar</td>
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<td></td>
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<td>Pct. of Trees having predicted 20-year average height, in feet, of--</td>
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<td>Kost sandcherry</td>
<td>D1B</td>
<td>Cotoneaster, western sandcherry</td>
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<td>Nanking cherry, common chokecherry, common lilac, late lilac, sargent crabapple, silver buffaloberry, Amur maple, Harbin pear, Manchurian crabapple, Siberian peashrub, blue spruce, common hackberry, eastern redcedar, northern whitecedar</td>
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<tr>
<td>Anoka, terrace</td>
<td>D1C</td>
<td>Cotoneaster, western sandcherry</td>
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<td>Zimmerman, terrace</td>
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<td>Pct of</td>
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<td>Pct. of</td>
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<td>---------------------------------------------------------------</td>
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<tr>
<td>D2A: Elkriver, occasionally flooded</td>
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<td>D3A: Elkriver, occasionally flooded</td>
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<tr>
<td>Fordum, frequently flooded</td>
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<tr>
<td>Winterfield, occasionally flooded</td>
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<td>Peking cotoneaster, western sandcherry</td>
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<tr>
<td>D4A: Dorset</td>
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<td><strong>Table 10.--Windbreaks and Environmental Plantings--Continued</strong></td>
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<tr>
<td>Map symbol and component name</td>
<td>Pct. of map unit</td>
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<td>-------------------------------------------------------------</td>
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<td>Almora--</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>Trees having predicted 20-year average height, in feet, of--</th>
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<td>Austrian pine, Black sargent crabapple, spruce, white</td>
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<tr>
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<td>Hills spruce, blue sargent crabapple, spruce, eastern</td>
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<td>chokecherry, Hills spruce, eastern chokecherry,</td>
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<td>Austrian pine, Black sargent crabapple, spruce, white</td>
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<td>Hills spruce, blue sargent crabapple, spruce, eastern</td>
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<td>chokecherry, Hills spruce, eastern chokecherry,</td>
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<td>silver buffaloberry</td>
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<td>Almora--</td>
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### Table 10.--Windbreaks and Environmental Plantings--Continued

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<td>Eastern white pine, Jack pine, imperial Carolina poplar</td>
<td>Siberian elm,</td>
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<td>Southaven</td>
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<td>American pine, Black Hills spruce, blue maple</td>
<td>Green ash, silver maple</td>
<td>Eastern cottonwood</td>
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Table 10.—Windbreaks and Environmental Plantings—Continued

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<td>eastern redcedar, silver buffalo</td>
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<td>American plum, Austrian pine, Black maple</td>
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<td>eastern redcedar, silver buffalo</td>
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<td>Hubbard--------</td>
<td>Cotoneaster, western sandcherry</td>
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<td>Sandberg</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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<td>American basswood, Austrian pine, Black Hills spruce, Norway spruce, Russian-olive, Scotch pine, green ash, white spruce, red pine, silver maple</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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| Cotoneaster, western sandcherry | 80 | Nanking cherry, American basswood, Eastern white pine, Siberian elm, poplar |
| common chokecherry, Austrian pine, Jack pine, Siberian poplar, Carolina pine |
| common lilac, Black Hills spruce, Sierra Nevada poplar, Eastern cottonwood |
| sargent, Russian-olive, cottonwood, eastern cottonwood |
| crabapple, silver, Scotch pine, green |
| buffaloberry, Amur maple, Harbin pear, ash, white spruce, red pine, silver maple |
| Manchurian crabapple, Siberian crabapple, Siberian peashrub, blue spruce, common hackberry, eastern redcedar, northern whitecedar |
Table 10.—Windbreaks and Environmental Plantings—Continued

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Table 10.--Windbreaks and Environmental Plantings--Continued

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<th>Pct. of component name</th>
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<td>5 Cotoneaster, western sandcherry</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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<td>silky dogwood</td>
<td>green ash, tall purple willow</td>
<td>willow</td>
<td>poplar</td>
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<td>Markey, drained--------------</td>
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<td>D17A: Duelm------------------</td>
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<td>Silver maple, eastern cottonwood, Siouxl cottonwood, Carolina poplar</td>
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## Table 10.--Windbreaks and Environmental Plantings--Continued

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<td>Dorset------------------------</td>
<td>5</td>
<td>American plum, Siberian crabapple, Amur maple, common chokecherry, eastern redcedar, silver buffaloberry</td>
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<tr>
<td>Mosford-----------------------</td>
<td>5</td>
<td>Nanking cherry, common chokecherry, common lilac, late lilac, sargent crabapple, silver buffaloberry, Amur maple, Harbin pear, Manchurian crabapple, Siberian crabapple, Siberian peashrub, blue spruce, common hackberry, eastern redcedar, northern whitecedar</td>
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</table>
## Table 10.—Windbreaks and Environmental Plantings—Continued

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<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>&lt;8</th>
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<th>16-25</th>
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<tbody>
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<td>D24A: Sedgeville, occasionally flooded</td>
<td>85</td>
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<td>American</td>
<td>Amur maple, Black</td>
<td>Norway spruce, green</td>
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<td>Elkriver, occasionally flooded</td>
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<td>Nanking cherry,</td>
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<td>Northern red oak,</td>
<td>Siberian elm, silver</td>
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<td>D25A: Soderville, terrace</td>
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<td>Norway spruce, green</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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<th>Component name</th>
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<th>Trees having predicted 20-year average height, in feet, of--</th>
<th>Pct. of</th>
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<th>8-15</th>
<th>16-25</th>
<th>26-35</th>
<th>&gt;35</th>
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<tbody>
<tr>
<td>Foldahl, MAP &gt;25</td>
<td>D26A: Peking cotoneaster, hedge cotoneaster</td>
<td>American, Blue spruce, Green ash, eastern, Silver maple, cranberrybush, nannyberry, white pine, jack pine, Siberian elm, Siberian peashrub, whitecedar, sugar, maple, Austrian, sargent crabapple, pine, Black Hills, American plum, northern,</td>
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<td>Hubbard--------</td>
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<td>maple, Harbin pear, as, white spruce, red pine, silver maple,</td>
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<td>Isan-----------</td>
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<td>Amur maple, Black Norway spruce, green Silver maple,</td>
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<td>American plum, common chokecherry, American basswood,</td>
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<td></td>
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<td>hackberry, eastern redcedar, silver buffalo</td>
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### Table 10. --Windbreaks and Environmental Plantings--Continued

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<th>8-15</th>
<th>16-25</th>
<th>26-35</th>
<th>&gt;35</th>
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<tbody>
<tr>
<td>D27A: Dorset, loamy substratum</td>
<td>Common lilac, hedge cotoneaster, late lilac</td>
<td>80</td>
<td>Common lilac, American plum, Siberian crabapple, sargent crabapple, Amur maple, common chokecherry, eastern redcedar, silver buffaloberry</td>
<td>American plum, Austrian pine, Black Hills spruce, blue spruce, white spruce, eastern white pine</td>
<td>Green ash, silver maple</td>
<td>Eastern cottonwood</td>
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<td>Dorset--</td>
<td>Common lilac, hedge cotoneaster, late lilac</td>
<td>15</td>
<td>Common lilac, American plum, Siberian crabapple, sargent crabapple, Amur maple, common chokecherry, eastern redcedar, silver buffaloberry</td>
<td>American plum, Austrian pine, Black Hills spruce, blue spruce, white spruce, eastern white pine</td>
<td>Green ash, silver maple</td>
<td>Eastern cottonwood</td>
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<tr>
<td>Southaven--</td>
<td>Nanking cherry-----</td>
<td>5</td>
<td>Nanking cherry, common chokecherry, cotoneaster, sargent crabapple, silver buffaloberry, American plum, Amur maple, common lilac</td>
<td>American plum, American basswood, Russian crabapple, Siberian crabapple, olive, Siberian crabapple, blue spruce, eastern redcedar, sugar maple, nannyberry, sugar maple, maple, white spruce, Austrian maple,쑥, common pine, European cottonwood</td>
<td>Black Hills spruce, blue spruce, American basswood, Russian crabapple, Siberian crabapple, olive, Siberian crabapple, blue spruce, eastern redcedar, sugar maple, nannyberry, sugar maple, maple, white spruce, Austrian maple, 쑩, common pine, European cottonwood</td>
<td>Norway spruce, green ash, eastern white pine, silver maple</td>
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<td>D288: Urban land--</td>
<td>Peking cotoneaster, hedge cotoneaster</td>
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<td>Bygland, MAP &gt;25-------</td>
<td>Peking cotoneaster, hedge cotoneaster</td>
<td>20</td>
<td>Peking cotoneaster, American plum, Siberian peashrub, common lilac, late lilac, sargent crabapple, Amur maple, bur oak, common chokecherry, gray dogwood, northern whitecedar, silver buffaloberry</td>
<td>American plum, Manchurian crabapple, Russian olive, Siberian crabapple, blue spruce, eastern redcedar, sugar maple, nannyberry, sugar maple, maple, white spruce, Austrian maple, 쑩, common pine, common hackberry</td>
<td>Black Hills spruce, blue spruce, American basswood, Russian crabapple, Siberian crabapple, olive, Siberian crabapple, blue spruce, eastern redcedar, sugar maple, nannyberry, sugar maple, maple, white spruce, Austrian maple, 쑩, common pine, common hackberry</td>
<td>American basswood, European cottonwood, Eastern cottonwood, Fuji cottonwood, Siouxland cottonwood, Carolina poplar</td>
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<td>Map symbol and component name</td>
<td>Pct. of map unit</td>
<td>Trees having predicted 20-year average height, in feet, of--</td>
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<td>American</td>
<td>Black Hills spruce, American basswood,</td>
<td>Eastern cottonwood,</td>
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<td>D29B: Urban land---------------</td>
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<td>Hubbard, bedrock substraatum----------</td>
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<td>Nanking cherry,</td>
<td>American basswood,</td>
<td>Eastern white pine,</td>
<td>Siberian elm,</td>
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<th>Component Name</th>
<th>Map Unit</th>
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<th>Map Symbol and Description</th>
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<td>Black Hills spruce,</td>
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<td>Siberian peashrub,</td>
<td>Harbin pear, blue spruce,</td>
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<td>American basswood,</td>
<td>Red spruce, green</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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<th>Pct of map unit</th>
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<tbody>
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<td></td>
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<td>&lt;8</td>
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</table>
| D31A: Hubbard  | Cotoneaster, western sandcherry | 5              | Nanking cherry, common chokecherry, American basswood, Austrian pine, jack pine, Eastern white pine, Siberian elm, Delaware | 20%
|                |                               |                | common lilac, common chokecherry, Black Hills spruce, Jack pine, Siberian elm, imperial Carolina poplar |
|                |                               |                | Black Hills spruce, Hawaiian haw, Manchurian crabapple, Siberian pea| 50%
|                |                               |                | crabapple, Siberian pea| 50%
|                |                               |                | crabapple, Silver| 50%
|                |                               |                | maple, Siberian pea| 50%
|                |                               |                | redosier dogwood, Blue spruce, Silver| 50%
|                |                               |                | maple, common | 50%
|                |                               |                | hackberry, eastern redcedar, northern whitecedar | 50%
| Isan           | Nanking cherry----             | 5              | American cranberrybush, Hills spruce, Blue | 70%
|                |                               |                | Siberian pea, Manchurian crabapple, Siberian pea | 70%
|                |                               |                | common lilac, Siberian pea | 70%
|                |                               |                | common lilac, common chokecherry, hackberry | 70%
|                |                               |                | eastern redcedar, Silver | 70%
|                |                               |                | silver buffaloberry | 70%
<p>| D33B: Urban land | Common lilac, hedge cotoneaster, late lilac | 70 | --- | --- | --- | --- |
|                |                               |                | American plum, American basswood, Hills spruce, Blue | --- |
|                |                               |                | Austrian pine, Black maple | --- |
|                |                               |                | Green ash, silver | --- |
| Dorset         | Common lilac, hedge cotoneaster, late lilac | 20 | American plum, American basswood, Hills spruce, Blue | --- |
|                |                               |                | Austrian pine, Black maple | --- |
|                |                               |                | Green ash, silver | --- |
|                |                               |                | Eastern cottonwood | --- |</p>
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<th>Component Name</th>
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<th>Pct of Map Unit</th>
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<th>16-25</th>
<th>26-35</th>
<th>&gt;35</th>
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<td>Common lilac, hedge cotoneaster, late lilac</td>
<td>D33B: Verndale, acid</td>
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<td>Green ash, silver maple</td>
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<td>Cotoneaster, western sandcherry</td>
<td>Hubbard</td>
<td>5</td>
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<td>American basswood, Black Hills spruce, Norway spruce, Russian-olive, Scotch pine, green ash, white spruce, red pine, silver maple</td>
<td>Eastern white pine, Siberian elm, jack pine, Siouxland cottonwood, eastern cottonwood, poplar, imperial Carolina poplar</td>
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<td></td>
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<td>D34B: Urban land---------------</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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</tbody>
</table>

| D35A: Elkriver, occasionally flooded | Peking cotoneaster, western sandcherry | 70               |      |       |       |       |      |
|                                    | Nanking cherry, Harbin pear, blue spruce, common chokecherry | Amur maple, Black Hills spruce, Manchurian crabapple, eastern redcedar, bur oak, common hackberry, white spruce |      |       |       |       |      |

| Fordum, occasionally flooded     | 20               |      |       |       |       |       |      |
| Udipsamments                    | 5                |      |       |       |       |       |      |
| Winterfield, occasionally flooded | 5               |      |       |       |       |       |      |
Table 10.—Windbreaks and Environmental Plantings—Continued

<table>
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<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
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<td>Hubbard, bedrock substratum-------</td>
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<td>D40A: Kratka, thick solum-------</td>
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### Table 10.—Windbreaks and Environmental Plantings—Continued

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<th>Pct. of</th>
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<td>10</td>
<td>Peking cotoneaster, western sandcherry, Harbin pear, blue spruce, common chokecherry</td>
<td>Nanking cherry, Siberian peashrub, Manchurian crabapples, eastern redcedar, bur oak, common hackberry, white spruce</td>
<td>Amur maple, Black Hills spruce, eastern redborder, bur oak, common hackberry, white spruce</td>
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<tr>
<td>Foldahl, MAP &gt;25-----</td>
<td>10</td>
<td>Peking cotoneaster, hedge cotoneaster, cranberrybush, common lilac, sargent crabapples, common chokecherry, western sandcherry</td>
<td>American plum, Siberian peashrub, pine, Black Hills spruce, eastern redcedar, bur oak, common hackberry, white spruce</td>
<td>Blue spruce, northern white spruce, sugar maple, Austrian ash</td>
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<tr>
<td>D41C:</td>
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<tr>
<td>Urban land-----</td>
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<td>Waukon----------</td>
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<td>20</td>
<td>Nanking cherry, common chokecherry, cotoneaster, sargent crabapples, silver buffaloberry</td>
<td>American plum, Amur maple, common lilac</td>
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</table>
Table 10.--Windbreaks and Environmental Plantings--Continued

<table>
<thead>
<tr>
<th>Component name</th>
<th>Map symbol and component name</th>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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Table 10.--Windbreaks and Environmental Plantings--Continued

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Hennepin County, Minnesota
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<td>Black Hills spruce</td>
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<td>Silver maple, eastern cottonwood, Siouxland cottonwood</td>
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<td>Nanking cherry</td>
<td>Black Hills spruce</td>
<td>Green ash</td>
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L2ZE:

<p>| Lester, morainic------------| 75                    | American cranberrybush, cotoneaster, sargent crabapple, silver, buffaloberry, American plum, Amur maple, common lilac | Nanking cherry | Black Hills spruce | Green ash | Silver maple, eastern cottonwood, Siouxland cottonwood |
| Terril----------------------| 15                    | American cranberrybush, cotoneaster, sargent crabapple, silver, buffaloberry, American plum, Amur maple, common lilac | Nanking cherry | Black Hills spruce | Green ash | Silver maple, eastern cottonwood, Siouxland cottonwood |</p>
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<td>16-25</td>
<td>26-35</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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Table 10.--Windbreaks and Environmental Plantings--Continued

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Table 10.--Windbreaks and Environmental Plantings--Continued

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Hennepin County, Minnesota
### Table 10.--Windbreaks and Environmental Plantings--Continued

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<td>&lt;8</td>
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<td>L39A: Algansee, occasionally flooded</td>
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<td>American cranberrybush, Nanking cherry, common chokecherry, redosier dogwood, sargent crapple, American plum, common lilac</td>
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<td>L4GB: Angus</td>
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<td>Nanking cherry</td>
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<td>Lerdal</td>
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<td>Hedge cotoneaster</td>
<td>American cranberrybush, common chokecherry, common lilac, cotoneaster, American plum, silver buffaloberry</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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<th>16-25</th>
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<td>American plum, blue spruce, Black Hills spruce, ponderosa pine, common hackberry</td>
<td>American plum, blue spruce, Black Hills spruce, western redcedar, white spruce, Norway spruce, ponderosa pine, eastern white pine</td>
<td>Green ash, silver maple, Siouxland cottonwood, eastern cottonwood</td>
<td>Green ash, silver maple, Siouxland cottonwood</td>
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<tr>
<td>Terril------------------------</td>
<td>10</td>
<td>Nanking cherry------American cranberrybush, cotoneaster, sargent crabapple, silver buffaloberry, American plum, Amur maple, common lilac</td>
<td>American plum, blue spruce, Black Hills spruce, western redcedar, white spruce, Norway spruce, ponderosa pine, eastern white pine</td>
<td>American plum, blue spruce, Black Hills spruce, western redcedar, white spruce, Norway spruce, ponderosa pine, eastern white pine</td>
<td>Silver maple, eastern cottonwood, Siouxland cottonwood</td>
<td>Silver maple, eastern cottonwood, Siouxland cottonwood</td>
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<tr>
<td>Derrynane---------------------</td>
<td>5</td>
<td>Nanking cherry------American cranberrybush, cotoneaster, sargent crabapple, common lilac, eastern redcedar, redosier dogwood, silver buffaloberry</td>
<td>American plum, blue spruce, Black Hills spruce, ponderosa pine, common hackberry</td>
<td>American plum, blue spruce, Black Hills spruce, western redcedar, white spruce, Norway spruce, ponderosa pine, eastern white pine</td>
<td>Green ash, silver maple, Siouxland cottonwood, eastern cottonwood</td>
<td>Green ash, silver maple, Siouxland cottonwood</td>
<td></td>
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</tbody>
</table>

L40B:

L41C2:

Lester, eroded------------45 Nanking cherry------American cranberrybush, cotoneaster, sargent crabapple, silver buffaloberry, American plum, Amur maple, common lilac | Black Hills spruce, blue spruce, eastern redcedar, white spruce, Norway spruce, ponderosa pine, eastern white pine | Green ash----------Silver maple, eastern cottonwood, Siouxland cottonwood | Green ash----------Silver maple, eastern cottonwood, Siouxland cottonwood |

Kilkenny, eroded--------40 Nanking cherry------American cranberrybush, cotoneaster, sargent crabapple, silver buffaloberry, American plum, Amur maple, common lilac | Black Hills spruce, blue spruce, eastern redcedar, white spruce, Norway spruce, ponderosa pine, eastern white pine | Green ash----------Silver maple, eastern cottonwood, Siouxland cottonwood | Green ash----------Silver maple, eastern cottonwood, Siouxland cottonwood |

328 Soil Survey of...
| Component name | Map symbol | Trees having predicted 20-year average height, in feet, of-- | Pct. of
map unit |
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<td>Black Hills spruce, blue spruce, eastern redcedar, white spruce, Norway spruce, ponderosa pine, eastern white pine</td>
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<td>Green ash, Silver maple, American plum, Amur maple, common lilac</td>
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<td>Kilkenny, eroded</td>
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<td>American cherry, American plum, Amur maple, common lilac</td>
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<td></td>
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<td>Green ash, Silver maple, American plum, Amur maple, common lilac</td>
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<td>Terril</td>
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<td>American cherry, American plum, Amur maple, common lilac</td>
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<td>Green ash, Silver maple, American plum, Amur maple, common lilac</td>
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<tr>
<td>Derrynane</td>
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<td>American cherry, American plum, blue spruce, Golden willow, Eastern white pine, Green ash, silver maple, Siouxland cottonwood, eastern cottonwood</td>
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<td>Ponderosa pine, white spruce, Norway spruce, hackberry, redosier dogwood</td>
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<td>Ridgeton</td>
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<td>American cherry, American plum, Amur maple, common lilac</td>
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<td>Black Hills spruce, blue spruce, eastern redcedar, white spruce, Norway spruce, ponderosa pine, eastern white pine</td>
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<td>Terril----------------------</td>
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<td>Derrynane-------------------</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued
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<td>Eastern white pine----</td>
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<td>Austrian pine,</td>
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<td>American plum, Amur maple, common lilac</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

| Map symbol and component name | Pct. of map unit | Trees having predicted 20-year average height, in feet, of-- | | |
|-------------------------------|------------------|-------------------------------------------------------------|---|
| L42E: Kingsley-----------------| 70               | Hedge cotoneaster---| American cranberrybush, | Black Hills spruce, blue spruce, | Eastern white pine, green ash, Silver maple, eastern cottonwood | |
|                               |                  | 8                | American plum, common chokecherry, | Amur maple, common | | |
|                               |                  | 16-25            | common lilac, silver | hackberry, white | | |
|                               |                  | 26-35            | buffaloberry, eastern redcedar | | | |
| Gotham--------------------------| 25               | ---              | American plum, common chokecherry, | Black Hills spruce, eastern redcedar, | Eastern white pine, --- | Scotch pine, eastern cottonwood | |
|                               |                  |                  | common lilac, sargent crabapple, silver buffaloberry | ponderosa pine, white spruce, Austrian pine, green ash, silver maple | | |
|                               |                  |                  | American plum, Amur maple, common lilac | | | |
| L42F: Kingsley-----------------| 70               | Hedge cotoneaster---| American cranberrybush, | Black Hills spruce, blue spruce, | Eastern white pine, green ash, Silver maple, eastern cottonwood | |
|                               |                  | 8                | American plum, common chokecherry, | Amur maple, common | | |
|                               |                  | 16-25            | common lilac, silver | hackberry, white | | |
|                               |                  | 26-35            | buffaloberry, eastern redcedar | | | |
| Gotham--------------------------| 25               | ---              | American plum, common chokecherry, | Black Hills spruce, eastern redcedar, | Eastern white pine, --- | Scotch pine, eastern cottonwood | |
|                               |                  |                  | common lilac, sargent crabapple, silver buffaloberry | ponderosa pine, white spruce, Austrian pine, green ash, silver maple | | |
Table 10.--Windbreaks and Environmental Plantings--Continued

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<tr>
<th>Component name</th>
<th>Map symbol and map unit</th>
<th>Trees having predicted 20-year average height, in feet, of--</th>
<th>Pct. of map unit</th>
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<td>26-35</td>
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<td></td>
<td></td>
<td></td>
<td>&gt;35</td>
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<tr>
<td>L42F: Grays----</td>
<td>5</td>
<td>Nanking cherry------American black hills spruce, blue spruce, green ash-------Silver maple, eastern cottonwood, eastern redcedar, white spruce, willows, ponderosa pine, Cottonwood.</td>
<td><strong>American cherry,</strong> <strong>black hills spruce,</strong> <strong>blue spruce,</strong> <strong>green ash,</strong> <strong>silver maple,</strong> <strong>willow,</strong> <strong>ponderosa pine</strong>.</td>
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<tr>
<td>L43A: Brouillet, occasionally flooded---</td>
<td>80</td>
<td>---American plum, common chokecherry, white cedar, black hills spruce, willow, eastern cottonwood.</td>
<td><strong>American plum,</strong> <strong>common chokecherry,</strong> <strong>black hills spruce,</strong> <strong>willow,</strong> <strong>eastern cottonwood</strong>.</td>
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<td>Minneiska, occasionally flooded----</td>
<td>10</td>
<td>---American plum, common chokecherry, white cedar, black hills spruce, willow, eastern cottonwood.</td>
<td><strong>American plum,</strong> <strong>common chokecherry,</strong> <strong>black hills spruce,</strong> <strong>willow,</strong> <strong>eastern cottonwood</strong>.</td>
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<tr>
<td>Rushriver, occasionally flooded----</td>
<td>10</td>
<td>Redosier dogwood---Common chokecherry, American plum, silver buffaloberry, green ash, Golden willow, eastern cottonwood.</td>
<td><strong>Common chokecherry,</strong> <strong>American plum,</strong> <strong>silver buffaloberry,</strong> <strong>green ash,</strong> <strong>golden willow,</strong> <strong>eastern cottonwood</strong>.</td>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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<td>Mineral soil, drained</td>
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**L50A:**
- Redosier dogwood
- Silky dogwood
- Black ash
- Golden willow

**L52C:**
- Redosier dogwood
- Silky dogwood
- Green ash, northern whitecedar
- Eastern cottonwood

**Lester: Urban land**
- Nanking cherry
- American plum
- Common chokecherry
- Sargent crabapple
- Buffaloberry
- American plum, Amur maple, common lilac

**Kingsley: Hedge cotoneaster**
- American plum
- Common chokecherry
- Common lilac
- Silver
- Buffaloberry
- Eastern redbud

**Lester: Urban land**
- Nanking cherry
- American plum
- Common chokecherry
- Cotoneaster
- Sargent crabapple
- Silver
- Buffaloberry
- American plum, Amur maple, common lilac

**Lester: Nanking cherry**
- American plum
- Common chokecherry
- Cotoneaster
- Sargent crabapple
- Silver
- Buffaloberry
- American plum, Amur maple, common lilac
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### Table 10. -- Windbreaks and Environmental Plantings -- Continued

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<th>16 - 25</th>
<th>26 - 35</th>
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Table 10.--Windbreaks and Environmental Plantings--Continued

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## Table 10.--Windbreaks and Environmental Plantings--Continued

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| Lester, eroded          | 60       | Nanking cherry | American | Black Hills spruce, eastern redcedar, white spruce, common hackberry | Green ash | Silver maple, eastern cottonwood, Siouxl and cottonwood, 
<p>|                         |          | cranberrybush, coteaster, sargent crabapple, common chokecherry, common lilac, | blue spruce, eastern redcedar, white spruce, common hackberry | | | |
| Malardi, eroded         | 25       | Common lilac, hedge cotoneaster, late lilac | American plum, | Austrian pine, Black Hills spruce, blue spruce, ponderosa pine, eastern white pine | Green ash, silver maple, Eastern cottonwood | |</p>
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L70C2:
Terril------------------------ 12 | Nanking cherry--------  
American | Black Hills spruce,  
cranberrybush, blue spruce,  
common chokecherry,  
cotoneaster,  
sargent crabapple, 
silver, 
buffaloberry, 
American plum, Amur maple, common lilac  

Hamel------------------------- 3 | Nanking cherry-------  
American | American plum, blue spruce,  
cranberrybush,  
cotoneaster,  
sargent crabapple, 
common lilac,  
redosier dogwood,  
silver buffaloberry  

L70D2:  
Lester, eroded---------------- 55 | Nanking cherry-------  
American | Black Hills spruce,  
cranberrybush, blue spruce,  
common chokecherry,  
cotoneaster,  
sargent crabapple, 
silver, 
buffaloberry, 
American plum, Amur maple, common lilac  

Malardi, eroded--------------- 25 | Common lilac, hedge  
cotoneaster, late  
lilac  
Siberian crabapple,  
Amur maple, common chokecherry,  
common red cedar,  
silver buffaloberry  

Terril------------------------ 12 | Nanking cherry------  
American | Black Hills spruce,  
cranberrybush, blue spruce,  
common chokecherry,  
cotoneaster,  
sargent crabapple,  
silver,  
buffaloberry, 
American plum, Amur maple, common lilac  

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Table 10.--Windbreaks and Environmental Plantings--Continued
### Table 10.—Windbreaks and Environmental Plantings—Continued

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<tr>
<th>Map symbol and component name</th>
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<td>Nanking cherry——</td>
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<td>Eastern white pine, golden willow</td>
<td>Green ash, silver maple, eastern cottonwood, cottonwood, eastern cottonwood</td>
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<td>Black Hills spruce, blue spruce,</td>
<td>Green ash——</td>
<td>Silver maple, eastern cottonwood, cottonwood, Siouxland</td>
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### Table 10.—Windbreaks and Environmental Plantings—Continued

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<tr>
<td>Cokato---</td>
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<td>Belview-----------------</td>
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| L110F:  
Lester----------------------| 55   | Nanking cherry----- | American, Black Hills spruce, green ash, Silver maple, eastern redcedar, honeylocust, jack pine, eastern cottonwood, quaking aspen, Norway spruce, cottonwood, Siouxl and cotton wood, Carolina poplar, common lilac |
| Ridgeton---------------------| 30   | Nanking cherry----- | American, Black Hills spruce, green ash, Silver maple, eastern redcedar, honeylocust, jack pine, eastern cottonwood, quaking aspen, Norway spruce, cottonwood, Siouxl and cotton wood, Carolina poplar, common lilac |
| Cokato----------------------| 8    | Nanking cherry----- | American, Black Hills spruce, green ash, Silver maple, eastern redcedar, honeylocust, jack pine, eastern cottonwood, quaking aspen, Norway spruce, cottonwood, Siouxl and cotton wood, Carolina poplar, common lilac |
| Belview---------------------| 4    | American plum, common lilac | Siberian peashrub, green ash, ponderosa pine, Eastern cottonwood, Black Hills spruce, honeylocust, jack pine, eastern redcedar |
Table 10.--Windbreaks and Environmental Plantings--Continued

<table>
<thead>
<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>Trees having predicted 20-year average height, in feet, of--</th>
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<tr>
<td></td>
<td></td>
<td>&lt;8</td>
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<tr>
<td>L110F: Terril-----------------</td>
<td>2</td>
<td>Nanking cherry ----</td>
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| L131A: Litchfield-------------| 85               | --- | Nanking cherry, Siberian peashrub, common neuroaster, redosier dogwood, sargent crabapple, silver buffaloberry, American plum, American lilac |

| Darfur------------------------| 10               | Nanking cherry---- | American plum, blue spruce, Black Hills spruce, ponderosa pine, common hackberry, green ash, silver maple, Siouxiand cottonwood, eastern cottonwood |

| Crowfords--------------------| 5                | --- | American plum, common chokecherry, common lilac, sargent crabapple, silver buffaloberry, Black Hills spruce, eastern redcedar, Scotch pine, eastern cottonwood |


Table 10.--Windbreaks and Environmental Plantings--Continued

<table>
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<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
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<td>L132A: Hamel</td>
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<td>Nanking cherry------Green ash, silver maple, Siouxl and cottonwood, eastern cottonwood</td>
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<tr>
<td></td>
<td></td>
<td>sargent crabapple, common lilac, eastern redcedar, redosier dogwood, silver buffaloberry</td>
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<tr>
<td></td>
<td></td>
<td>American plum, blue spruce, Black Hills spruce, Canadian</td>
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<td>Eastern white pine, golden willow</td>
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<td>Hamel, overwash---------15</td>
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<td></td>
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<td>American black Hills spruce, blue spruce, white spruce,</td>
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<td>common redcedar, ponderosa pine, Amur maple, common hackberry</td>
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<td>Hamel, depressional---30</td>
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<td>Redosier dogwood------Silky dogwood------Green ash, northern whitecedar</td>
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<td>Nanking cherry------American cranberrybush, common chokecherry, cotoneaster, sargent crabapple, silver buffaloberry, American plum, Amur maple, common lilac</td>
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<tr>
<td></td>
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<td>Black Hills spruce, blue spruce, eastern redcedar, white</td>
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<td>spruce, Norway spruce, ponderosa pine, eastern white pine</td>
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Table 11.--Windbreak Suitability Groups

(Suitable shrubs and trees with their mature heights are listed in Table 10. Absence of an entry indicates that a windbreak suitability group is not assigned)

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### Table 11.—Windbreak Suitability Groups—Continued

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Table 12a.--Recreational Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table.)

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### Table 12a. -- Recreational Development -- Continued

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Map symbol and component name

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- Okoboji, ponded
- Glencoe, ponded
- Houghton, ponded
- Muskego, ponded
- Blue Earth, ponded
- Houghton, ponded
- Klossner, ponded
- Angus
- Malardi
- Moon
- Cordova
- Shields
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Table 12a.--Recreational Development--Continued

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Table 12b.--Recreational Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table.)

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Hennepin County, Minnesota

Table 12b.--Recreational Development--Continued
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Map symbol and
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Paths and trails
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Off-road
|
Golf fairways
component name
| of |
|
motorcycle trails
|
|map |
|
|
|unit|_____________________________________________________________________________
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| Rating class and |Value| Rating class and |Value| Rating class and |Value
|
| limiting features |
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D11A:
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Lindaas-------------| 80 |Very limited
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|Very limited
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|Very limited
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| Depth to
|1.00 | Depth to
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saturated zone |
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saturated zone |
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saturated zone |
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|
Lindaas, sandy
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substratum---------| 10 |Very limited
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|
|Very limited
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|
| Depth to
|1.00 | Depth to
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Depressional soil---| 10 |Very limited
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| Ponding
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D12B:
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Bygland, MAP >25----| 70 |Not limited
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|Not limited
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|Not limited
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Bygland, sandy
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|
substratum---------| 15 |Not limited
|
|Not limited
|
|Somewhat limited
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| Depth to
|0.02
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saturated zone |
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Lindaas-------------| 10 |Very limited
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| Depth to
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Depressional soil---| 5 |Very limited
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|Very limited
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|Very limited
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| Depth to
|1.00 | Depth to
|1.00 | Depth to
|1.00
|
|
saturated zone |
|
saturated zone |
|
saturated zone |
|
| Ponding
|1.00 | Ponding
|1.00 | Ponding
|1.00
|
|
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|
D12C2:
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|
|
Bygland, MAP >25----| 70 |Not limited
|
|Not limited
|
|Not limited
|
|
|
|
|
|
|
|
Bygland, sandy
|
|
|
|
|
|
|
substratum---------| 15 |Not limited
|
|Not limited
|
|Somewhat limited
|
|
|
|
|
|
| Depth to
|0.02
|
|
|
|
|
|
saturated zone |
|
|
|
|
|
|
|
Lindaas-------------| 10 |Very limited
|
|Very limited
|
|Very limited
|
|
| Depth to
|1.00 | Depth to
|1.00 | Depth to
|1.00
|
|
saturated zone |
|
saturated zone |
|
saturated zone |
|
|
|
|
|
|
|
Depressional soil---| 5 |Very limited
|
|Very limited
|
|Very limited
|
|
| Depth to
|1.00 | Depth to
|1.00 | Depth to
|1.00
|
|
saturated zone |
|
saturated zone |
|
saturated zone |
|
| Ponding
|1.00 | Ponding
|1.00 | Ponding
|1.00
|
|
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|
D13A:
|
|
|
|
|
|
|
Langola, terrace----| 85 |Somewhat limited
|
|Somewhat limited
|
|Somewhat limited
|
|
| Too sandy
|0.96 | Too sandy
|0.96 | Depth to
|0.19
|
|
|
|
|
|
saturated zone |
|
|
|
|
|
|
|
Duelm---------------| 10 |Somewhat limited
|
|Somewhat limited
|
|Somewhat limited
|
|
| Too sandy
|0.87 | Too sandy
|0.87 | Droughty
|0.21
|
|
|
|
|
|
|
Hubbard-------------| 5 |Somewhat limited
|
|Somewhat limited
|
|Somewhat limited
|
|
| Too sandy
|0.81 | Too sandy
|0.81 | Droughty
|0.50
|
|
|
|
|
|
|

425


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<td>Too sandy</td>
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<td>Too sandy</td>
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### Table 12b.--Recreational Development--Continued

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Table 12b.--Recreational Development--Continued

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| D31A:                        |                  |                  |                  |              |
| Urban land                   | 70               | Not rated        | Not rated        | Not rated    |

| D33B:                        |                  |                  |                  |              |
| Urban land                   | 70               | Not rated        | Not rated        | Not rated    |

| D33C:                        |                  |                  |                  |              |
| Urban land                   | 70               | Not rated        | Not rated        | Not rated    |

<p>| D34B:                        |                  |                  |                  |              |
| Urban land                   | 75               | Not rated        | Not rated        | Not rated    |</p>
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### Table 12b. --Recreational Development--Continued

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Note: The table continues with similar entries for additional components and ratings.
<p>| L42C: Grays | 5 | Not limited | Not limited | Not limited |
| L42D: Kingsley | 70 | Not limited | Not limited | Somewhat limited |
| Gotham | 25 | Somewhat limited | Somewhat limited | Somewhat limited |
| | | Too sandy | 0.57 | Too sandy | 0.57 | Slope | 0.96 |
| Grays | 5 | Not limited | Not limited | Not limited |
| L42E: Kingsley | 70 | Somewhat limited | Not limited | Very limited |
| Gotham | 25 | Somewhat limited | Somewhat limited | Very limited |
| | | Slope | 0.82 | Too sandy | 0.57 | Slope | 1.00 |
| Grays | 5 | Not limited | Not limited | Not limited |
| L42F: Kingsley | 70 | Very limited | Somewhat limited | Very limited |
| Gotham | 25 | Very limited | Somewhat limited | Very limited |
| | | Slope | 1.00 | Too sandy | 0.57 | Slope | 1.00 |
| Grays | 5 | Not limited | Not limited | Not limited |
| L43A: Brouillett, occasionally flooded | 80 | Somewhat limited | Somewhat limited | Somewhat limited |
| | | Depth to | 0.44 | Depth to | 0.44 | Depth to | 0.75 |
| Minneiska, occasionally flooded | 10 | Not limited | Not limited | Somewhat limited |
| Rushriver, occasionally flooded | 10 | Very limited | Very limited | Very limited |
| | | Depth to | 1.00 | Depth to | 1.00 | Depth to | 1.00 |
| L44A: Nessel | 85 | Not limited | Not limited | Not limited |
| Cordova | 10 | Very limited | Very limited | Very limited |
| | | Depth to | 1.00 | Depth to | 1.00 | Depth to | 1.00 |
| Angus | 5 | Not limited | Not limited | Not limited |</p>
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Table 12b.--Recreational Development--Continued
### Table 12b.—Recreational Development—Continued

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Table 12b.--Recreational Development--Continued

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Table 12b.--Recreational Development--Continued
Table 13.--Wildlife Habitat

(See text for definitions of terms used in this table. Absence of an entry indicates that no rating is applicable)

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Table 14a.--Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

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Table 14a.--Building Site Development--Continued
### Table 14a.—Building Site Development—Continued

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Table 14a.--Building Site Development--Continued

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Table 14a.--Building Site Development--Continued
### Table 14a. --Building Site Development--Continued

| Map symbol and component name | L49A: Mineral soil, drained | L50A: Houghton, surface drained | Muskego, surface drained | Klossner, drained | Mineral soil, drained | L52C: 
|-----------------------------|-----------------------------|---------------------------------|-------------------------|-------------------|----------------------|-------------------
| Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value | Rating class and limiting features | Value |
| Dwellings without basements | Dwellings with basements | Small commercial buildings |
| Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 |
| Shrink-swell | 0.50 | Shrink-swell | 0.50 | Shrink-swell | 0.50 | Shrink-swell | 0.50 |
| Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 |
| Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| Content of organic matter | 1.00 | Content of organic matter | 1.00 | Content of organic matter | 1.00 | Content of organic matter | 1.00 |
| Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 |
| Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 |
| Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| Content of organic matter | 1.00 | Content of organic matter | 1.00 | Content of organic matter | 1.00 | Content of organic matter | 1.00 |
| Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 |
| Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 |
| Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| Content of organic matter | 1.00 | Content of organic matter | 1.00 | Content of organic matter | 1.00 | Content of organic matter | 1.00 |
| Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 |
| Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 |
| Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
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| Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 |
| Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 | Subsidence | 1.00 |
| Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 | Depth to saturated zone | 1.00 |
| Content of organic matter | 1.00 | Content of organic matter | 1.00 | Content of organic matter | 1.00 | Content of organic matter | 1.00 |
| Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 | Ponding | 1.00 |
Table 14a.—Building Site Development--Continued

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### Table 14a.--Building Site Development--Continued

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Table 14a.--Building Site Development--Continued
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Table 14a.—Building Site Development—Continued
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Table 14a.--Building Site Development--Continued
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Table 14b.--Building Site Development--Continued

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Table 14b.—Building Site Development—Continued

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**L16A:**
- Houghton, ponded
  - Rating: 30
  - Not rated
  - Ponding: 1.00
  - Depth to saturated zone: 1.00
  - Content of organic matter: 1.00
  - Cutbanks cave: 0.10

**L17B:**
- Angus
  - Rating: 50
  - Somewhat limited
  - Shrink-swell: 0.50
  - Frost action: 0.50
  - Depth to saturated zone: 1.00
  - Cutbanks cave: 0.10

**Klossner, ponded:**
- Rating: 10
  - Very limited
  - Ponding: 1.00
  - Depth to saturated zone: 1.00
  - Content of organic matter: 1.00
  - Cutbanks cave: 0.10

**Cordova:**
- Rating: 10
  - Very limited
  - Ponding: 1.00
  - Depth to saturated zone: 1.00

**L18A:**
- Shields
  - Rating: 85
  - Very limited
  - Ponding: 1.00
  - Depth to saturated zone: 1.00
  - Content of organic matter: 1.00
  - Cutbanks cave: 0.10

**L98:**
- Lerdal
  - Rating: 10
  - Very limited
  - Depth to saturated zone: 0.60

**Mazaska:**
- Rating: 5
  - Very limited
  - Ponding: 1.00
  - Depth to saturated zone: 1.00

**L198:**
- Moon
  - Rating: 85
  - Somewhat limited
  - Shrink-swell: 0.50
  - Depth to saturated zone: 1.00
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Table 14b.--Building Site Development--Continued
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Table 15a.--Construction Materials

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. "Not rated" indicates that data are not available or that no rating is applicable. See [text] for further explanation of ratings in this table.)

<table>
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<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
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<th>Rating class</th>
<th>Value</th>
<th>Potential as source of sand</th>
<th>Rating class</th>
<th>Value</th>
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See [text] for further explanation of ratings in this table.
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| D6B:                        |                 |                               |                            |
| Verndale, acid substratum   | 85 Poor         | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.03                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.86                       |

| Dorset                      | 10 Fair         | Fair                          |                            |
|                             | Thickest layer  | 0.00                          | Thickest layer             | 0.02                       |
|                             | Bottom layer    | 0.08                          | Bottom layer               | 0.58                       |

| Hubbard                     | 5 Poor          | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.10                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.86                       |

| D6C:                        |                 |                               |                            |
| Verndale, acid substratum   | 80 Poor         | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.03                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.86                       |

| Dorset                      | 15 Fair         | Fair                          |                            |
|                             | Bottom layer    | 0.08                          | Thickest layer             | 0.08                       |
|                             | Thickest layer  | 0.08                          | Bottom layer               | 0.58                       |

| Hubbard                     | 5 Poor          | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.50                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.58                       |

| D7A:                        |                 |                               |                            |
| Hubbard                     | 95 Poor         | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.10                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.86                       |

| Mosford                     | 5 Poor          | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.69                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.79                       |

| D7B:                        |                 |                               |                            |
| Hubbard                     | 90 Poor         | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.10                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.86                       |

| Mosford                     | 10 Poor         | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.69                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.79                       |

| D7C:                        |                 |                               |                            |
| Hubbard                     | 80 Poor         | Fair                          |                            |
|                             | Bottom layer    | 0.00                          | Thickest layer             | 0.50                       |
|                             | Thickest layer  | 0.00                          | Bottom layer               | 0.58                       |

<p>| Sandberg                    | 10 Fair         | Fair                          |                            |
|                             | Thickest layer  | 0.01                          | Thickest layer             | 0.50                       |
|                             | Bottom layer    | 0.08                          | Bottom layer               | 0.86                       |</p>
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Table 15b.--Construction Materials

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 0.99. The smaller the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table.)

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**Rating class and unit:**

- **Pct.** Percentage
- **Value** Value
- **Roadfill** Potential as source of roadfill
- **Topsoil** Potential as source of topsoil
- **Rating class** and **map symbol:** Rating class and map symbol of reclamation material
- **Potential as source:** Potential as source of reclamation material
- **Shrink-swell zone:** Shrink-swell zone
- **Depth to:** Depth to
- **Too clayey:** Too clayey
- **Too acid:** Too acid
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Table 15b.--Construction Materials--Continued
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### Notes
- **Limiting Features**: Depth to flooded, occasionally
- **Rating Class and Limiting Features**: Rating class and potential as source of reclamation material, roadfill, and topsoil.
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Table 15b.--Construction Materials--Continued
Table 15b.--Construction Materials--Continued

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Table 16.--Water Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table.)

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Table 16.--Water Management--Continued

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Table 16.--Water Management--Continued
Table 16.--Water Management--Continued

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Table 16.--Water Management--Continued

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

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

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

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

### Engineering Index Properties

Table 17 gives estimates of the engineering classification and of the range of index properties for the major horizons of each soil. Most soils have horizons of contrasting properties within the upper 5 or 6 feet.

*Depth* to the upper and lower boundaries of each horizon is indicated.

*Texture* is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. “Loam,” for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is as much as 15 percent, an appropriate modifier is added, for example, “gravely.”

Textural terms are defined in the Glossary.

*Classification* of the soils is determined according to the Unified soil classification system (ASTM, 2001) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2000).

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

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

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

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

*Percentage (of soil particles) passing designated sieves* is the percentage of the soil fraction less than 3...
inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas. Estimates are based on test data from the survey area or from nearby areas and on test data from the survey area. The estimates are based on test data from the survey area and on field examination.

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

Physical and Chemical Properties

Tables 18 and 19 show estimates of some characteristics and features that affect soil behavior. These estimates are given for the major horizons of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each horizon is indicated.

In Table 18, clay as a soil separate, or component, consists of mineral soil particles that are less than 0.002 millimeter in diameter. The estimated clay content of each major soil horizon is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

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

Moist bulk density is the weight of soil (oven-dry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at \(1/3\)-bar moisture tension. Weight is determined after drying the soil at 105 degrees C. In Table 18, the estimated moist bulk density of each major soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. A bulk density of more than 1.6 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Permeability refers to the ability of a soil to transmit water or air. The term "permeability," as used in soil surveys, indicates saturated hydraulic conductivity \(K_{sat}\). The estimates in the table indicate the rate of water movement, in inches per hour, when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Permeability is considered in the design of soil drainage systems and septic tank absorption fields.

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

Linear extensibility percent is the linear expression of the volume difference of natural soil fabric at \(1/3\)-bar or \(1/10\)-bar water content and oven dryness. The volume change is reported as percent change for the whole soil. Volume change occurs mainly because of the interaction of clay minerals with water and varies with the amount and type of clay minerals in the soil. The size of the load on the soil and the magnitude of the change in soil moisture content influence the amount of swelling of soils in place. Laboratory measurements of swelling of undisturbed clods were made for many soils. For others, swelling was estimated on the basis of the kind and amount of clay minerals in the soil and on measurements of similar soils.

Linear extensibility of 3 percent or more can cause damage to buildings, roads, and other structures. Special design is often needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In Table 18, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained or increased by returning crop residue to the soil. Organic matter affects the available water
capacity, infiltration rate, and tilth. It is a source of nitrogen and other nutrients for crops.

Erosion factors are shown in table 18 as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of several factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and permeability. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

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

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

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. Descriptions of these groups are available in the National Soil Survey Handbook (USDA, 2003).

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

In table 19, cation-exchange capacity is the total amount of extractable bases that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. Soils having a low cation-exchange capacity hold fewer cations and may require more frequent applications of fertilizer than soils having a high cation-exchange capacity. The ability to retain cations reduces the hazard of ground-water pollution.

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

Calcium carbonate equivalent is the percent of carbonates, by weight, in the fraction of the soil less than 2 millimeters in size. The availability of plant nutrients is influenced by the amount of carbonates in the soil. Incorporating nitrogen fertilizer into calcareous soils helps to prevent nitrite accumulation and ammonium-N volatilization.

Gypsum is expressed as a percent, by weight, of hydrated calcium sulfates in the fraction of the soil less than 20 millimeters in size. Gypsum is partially soluble in water. Soils that have a high content of gypsum may collapse if the gypsum is removed by percolating water.

Water Features

Soil moisture status is an estimate of the fluctuating water content in a soil. It greatly influences vegetation type and plant growth; physical properties of soils, such as permeability, workability, strength, linear extensibility, and frost action; and chemical interactions and transport. Many other properties, qualities, and interpretations also are affected. Soil moisture status is important in the classification of soils, wetland, and habitat. Table 20 gives estimates of soil moisture for each component of a map unit at various depths for every month of the year. The depths displayed are representative values that are indicative of conditions that occur most commonly. Dry indicates a moisture condition under which most plants (especially crops) cannot extract water for growth. Moist indicates a moisture condition under which soil water is most readily available for plant growth. Wet indicates a condition under which water will stand in an unlined hole or at least a condition under which the soil is too wet for the growth of most agricultural species. A moisture status of 4.0-6.7 (wet) indicates that most of the time the component is saturated at some depth between 4.0 feet and 6.7 feet during the month designated. In some years the soil may be saturated at a depth of less than 4.0 feet or more than 6.7 feet; however, field observations indicate that the soil will be saturated between these depths in most years. In the summer, the soil may show the effects of drying plus intermittent rains that result in a moist or wet layer over a dry layer that gets moist or wet again.

In table 20, hydrologic soil groups are groups of
Soils that, when saturated, have the same runoff potential under similar storm and ground cover conditions. The soil properties that affect the runoff potential are those that influence the minimum rate of infiltration in a bare soil after prolonged wetting and when the soil is not frozen. These properties include the depth to a zone in which the soil moisture status is wet, the infiltration rate, permeability after prolonged wetting, and the depth to a very slowly permeable horizon or horizons. The influences of ground cover and slope are treated independently and are not taken into account in hydrologic soil groups.

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

The four hydrologic soil groups are:

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

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

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

- **Group D.** Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clayey soils that have a high linear extensibility; soils that have a zone, high in the profile, in which the soil moisture status is wet on a permanent basis; soils that have a claypan or clay horizon or horizons at or near the surface; and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas.

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

**Table 21** gives estimates of the frequency and duration of flooding for every month of the year. Flooding frequency is the annual probability of a flood event expressed as a class. **None** indicates no reasonable possibility of flooding (the chance of flooding is nearly 0 percent in any year, or flooding is likely less than once in 500 years). **Very rare** indicates that flooding is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year, or flooding is likely less than once in 100 years but more than once in 500 years). **Rare** indicates that flooding is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year, or flooding is likely 1 to 5 times in 100 years). **Occasional** indicates that flooding occurs infrequently under usual weather conditions (the chance of flooding is 5 to 50 percent in any year, or flooding is likely 5 to 50 times in 100 years). **Frequent** indicates that flooding is likely to occur often under usual weather conditions (the chance of flooding is more than 50 percent in any year, or flooding is likely more than 50 times in 100 years; but the chance of flooding is less than 50 percent in all months in any year). **Very frequent** indicates that flooding is likely to occur very often under usual weather conditions (the chance of flooding is more than 50 percent in all months of any year).

Flooding duration is the average duration of inundation per flood occurrence expressed as a class. **Extremely brief** is 0.1 hour to 4.0 hours; **very brief** is 4 to 48 hours; **brief** is 2 to 7 days; **long** is 7 to 30 days; and **very long** is more than 30 days. About two-thirds to three-fourths of all flooding occurs during the stated period.

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

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

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

**Table 22** gives estimates of the frequency,
duration, and depth of ponding for every month of the year. The depths displayed are representative values that are indicative of conditions that occur most commonly.

Ponding frequency is the number of times ponding occurs over a period of time. None indicates no reasonable possibility of ponding (the chance of ponding is nearly 0 percent in any year). Rare indicates that ponding is unlikely but possible under unusual weather conditions (the chance of ponding ranges from nearly 0 percent to 5 percent in any year, or ponding is likely 0 to 5 times in 100 years). Occasional indicates that ponding is expected infrequently under usual weather conditions (the chance of ponding ranges from 5 to 50 percent in any one year, or ponding is likely 5 to 50 times in 100 years). Frequent indicates that ponding is likely to occur under usual weather conditions (the chance of ponding is more than 50 percent in any year, or ponding is likely more than 50 times in 100 years).

Ponding duration is the average length of time of the ponding occurrence. It is expressed as very brief (less than 2 days), brief (2 to 7 days), long (7 to 30 days), and very long (more than 30 days).

Soil Features

Table 23 gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

A restrictive layer is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers. Depth to top is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

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

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

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel or concrete in installations that are entirely within one kind of soil or within one soil layer.

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

For concrete, the risk of corrosion also is expressed as low, moderate, or high. It is based on soil texture, acidity, and amount of sulfates in the saturation extract.
Table 17.—Engineering Index Properties
(Absence of an entry indicates that the data were not estimated)

<table>
<thead>
<tr>
<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>Depth</th>
<th>USDA texture</th>
<th>Classification</th>
<th>Fragments</th>
<th>Percentage passing sieve number—</th>
<th>Liquid limit</th>
<th>Plasticity index</th>
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<td>NP-4</td>
<td></td>
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<tr>
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<td>Very fine sand</td>
<td>SP-SM, SM, SF</td>
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<td>0-20</td>
<td>NP-4</td>
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<td>NP-4</td>
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**Bygland, sandy substratum**

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**Hubbard, bedrock substratum**

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Table 17.--Engineering Index Properties--Continued

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<td>Suckercreek, occasionally flooded--------</td>
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Note: Depth values are in inches, percentage passing sieve number in percentages, and liquid limit, plasticity index in percentages.
Table 17.--Engineering Index Properties--Continued

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1. **Map symbol and component name**: L62D2: Forestcity, L62E: Koronis, Kingsley, Malardi
2. **Pct. of map unit**: The percentage of the map unit.
3. **Depth**: The depth range of the soil profile.
4. **USDA texture**: The USDA texture classification of the soil.
5. **Classification**: The AASHTO classification of the soil.
6. **Fragments**: The percentage of fragments in the soil.
7. **Percentage passing sieve number--liquid limit**: The percentage of material passing through specific sieve sizes.
8. **Plasticity index**: The plasticity index of the soil.

Example entries:
- **Koronis**: Pct. 25, Depth 0-7, USDA texture Sandy loam, Classification A-2, A-4, Fragments 0-0, 0-5, 90-100, 75-100, 50-85, 30-45, 15-20, NP-5
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### Table 17.--Engineering Index Properties--Continued

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Table 17.--Engineering Index Properties--Continued
Table 18.—Physical Properties of the Soils

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated)

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| D33C: Verndale, acid substratum | 5 0-10 7-12 | 1.30-1.50 | 2-6 | 0.13-0.17 | 0.0-2.9 | 2.0-4.0 | .20 | .20 | 3 3 | 86 |
|                               | 10-19 7-18 | 1.45-1.60 | 0.6-2 | 0.14-0.18 | 0.0-2.9 | 0.5-1.0 | .24 | .24 |     |     |   |      |                     ...
|                               | 19-28 2-6 | 1.55-1.80 | 6-20 | 0.06-0.08 | 0.0-2.9 | 0.0-0.5 | .10 | .10 |     |     |   |      |                     ...
|                               | 28-80 0-4 | 1.60-1.80 | 6-20 | 0.02-0.06 | 0.0-2.9 | 0.0-0.5 | .10 | .10 |     |     |   |      |                     ...
| Hubbard------------------------ | 5 0-12 4-10 | 1.45-1.60 | 6-20 | 0.08-0.12 | 0.0-2.9 | 2.0-4.0 | .15 | .15 | 5 2 | 134 |
|                               | 12-33 1-5 | 1.55-1.65 | 6-20 | 0.03-0.07 | 0.0-2.9 | 0.0-0.5 | .15 | .15 |     |     |   |      |                     ...
|                               | 33-80 0-5 | 1.55-1.65 | 6-20 | 0.03-0.07 | 0.0-2.9 | 0.0-0.5 | .15 | .15 |     |     |   |      |                     ...
| D34B: Urban land----------------- | 75 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Hubbard------------------------ | 20 0-18 4-10 | 1.45-1.60 | 6-20 | 0.08-0.12 | 0.0-2.9 | 2.0-4.0 | .15 | .15 | 5 2 | 134 |
|                               | 18-23 1-5 | 1.55-1.65 | 6-20 | 0.03-0.07 | 0.0-2.9 | 0.0-0.5 | .15 | .15 |     |     |   |      |                     ...
|                               | 23-80 0-5 | 1.55-1.65 | 6-20 | 0.03-0.07 | 0.0-2.9 | 0.0-0.5 | .15 | .15 |     |     |   |      |                     ...
| Mosford----------------------- | 5 0-13 7-18 | 1.40-1.60 | 2-6 | 0.13-0.18 | 0.0-2.9 | 2.0-4.0 | .20 | .20 | 3 3 | 86 |
|                               | 13-16 7-18 | 1.50-1.60 | 2-6 | 0.12-0.17 | 0.0-2.9 | 0.5-2.0 | .24 | .24 |     |     |   |      |                     ...
|                               | 16-35 2-6 | 1.55-1.70 | 6-20 | 0.03-0.11 | 0.0-2.9 | 0.0-0.5 | .15 | .15 |     |     |   |      |                     ...
|                               | 35-80 2-4 | 1.55-1.70 | 6-20 | 0.02-0.07 | 0.0-2.9 | 0.0-0.5 | .05 | .10 |     |     |   |      |                     ...
| D35A: Elkriver, occasionally flooded----------------- | 70 0-10 5-18 | 1.45-1.55 | 0.6-6 | 0.16-0.20 | 0.0-2.9 | 3.0-10 | .17 | .17 | 4 3 | 86 |
|                               | 10-26 5-18 | 1.45-1.55 | 0.6-6 | 0.15-0.20 | 0.0-2.9 | 3.0-10 | .17 | .17 |     |     |   |      |                     ...
|                               | 26-32 5-18 | 1.45-1.55 | 0.6-6 | 0.15-0.19 | 0.0-2.9 | 0.5-2.0 | .15 | .15 |     |     |   |      |                     ...
|                               | 32-80 1-10 | 1.60-1.70 | 6-20 | 0.02-0.10 | 0.0-2.9 | 0.0-0.5 | .10 | .15 |     |     |   |      |                     ...
| Forudum, occasionally flooded----------------- | 20 0-7 5-12 | 1.35-1.50 | 0.6-6 | 0.11-0.18 | 0.0-2.9 | 3.0-10 | .17 | .17 | 4 3 | 86 |
|                               | 7-28 1-10 | 1.40-1.50 | 0.6-6 | 0.10-0.22 | 0.0-2.9 | 1.0-10 | .20 | .20 |     |     |   |      |                     ...
|                               | 28-80 1-5 | 1.55-1.70 | 6-20 | 0.04-0.10 | 0.0-2.9 | 0.5-2.0 | .15 | .15 |     |     |   |      |                     ...
| Udipsaments------------------- | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Winterfield, occasionally flooded----------------- | 5 0-8 0-10 | 1.40-1.50 | 2-20 | 0.10-0.12 | 0.0-2.9 | 2.0-7.0 | .05 | .05 | 5 2 | 134 |
|                               | 8-20 0-5 | 1.45-1.60 | 6-20 | 0.06-0.11 | 0.0-2.9 | 0.0-1.0 | .17 | .17 |     |     |   |      |                     ...
|                               | 20-80 0-5 | 1.55-1.65 | 6-20 | 0.04-0.10 | 0.0-2.9 | 0.0-0.5 | .10 | .17 |     |     |   |      |                     ...

Table 18.--Physical Properties of the Soils--Continued
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Hennepin County, Minnesota
825

Table 18.--Physical Properties of the Soils--Continued
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|Erosion factors|Wind |Wind
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| bulk
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| Kw | Kf | T |group |index
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Tomall----------------|
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| 0-33 | 12-20|1.25-1.40| 0.6-2
|0.20-0.24| 0.9-3.2 | 4.0-9.0 | .28 | .28 | 5 | 5
| 56
|
| 33-42 | 10-18|1.40-1.60| 0.6-2
|0.15-0.19| 0.9-4.2 | 0.2-1.0 | .28 | .28 |
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|
| 42-47 | 2-10|1.40-1.60|
6-40
|0.02-0.05| 0.1-0.5 | 0.1-0.5 | .05 | .15 |
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| 47-80 | 2-10|1.40-1.60|
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|0.02-0.05| 0.1-0.5 | 0.0-0.5 | .05 | .15 |
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Crowfork--------------|
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| 0-11 | 2-10|1.40-1.60|
6-20
|0.10-0.12| 0.0-2.9 | 1.0-3.0 | .17 | .17 | 5 | 2
| 134
|
| 11-20 | 2-10|1.50-1.70|
6-20
|0.06-0.11| 0.0-2.9 | 0.0-0.5 | .17 | .17 |
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| 7-11 | 1-10|1.50-1.65|
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| 9-14 | 10-18|1.45-1.65|
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### Table 18: Physical Properties of the Soils—Continued

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### Table 18. Physical Properties of the Soils—Continued

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<th>Available water capacity</th>
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<th>Organic matter</th>
<th>Erosion factors</th>
<th>Wind erodibility</th>
<th>Wind erodibility</th>
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| | | 12-60 | 18-35 | 1.30-1.35 | 0.2-0.6 | 0.17-0.19 | 0.0-2.9 | 0.5-4.0 | 0.28 | 0.28 |
| Algansee, occasionally flooded | 5 | 0-6 | 1-15 | 1.35-1.50 | 6-20 | 0.10-0.12 | 0.0-2.9 | 2.0-4.0 | 0.17 | 0.17 | 5 | 2 | 134
| | | 6-60 | 1-15 | 1.40-1.65 | 6-20 | 0.05-0.10 | 0.0-2.9 | 0.0-0.5 | 0.17 | 0.17 |
| L40B: | 45 | 0-8 | 20-27 | 1.30-1.40 | 0.6-2 | 0.20-0.22 | 0.0-2.9 | 2.0-4.0 | 0.28 | 0.28 | 5 | 6 | 48
| | | 8-35 | 24-35 | 1.40-1.55 | 0.6-2 | 0.15-0.19 | 3.0-5.9 | 0.5-1.0 | 0.28 | 0.28 |
| Kilkenny | 40 | 0-11 | 27-30 | 1.15-1.25 | 0.2-0.6 | 0.17-0.19 | 3.0-5.9 | 2.0-4.0 | 0.28 | 0.28 | 5 | 6 | 48
| | | 11-35 | 35-45 | 1.25-1.35 | 0.2-0.6 | 0.15-0.19 | 3.0-5.9 | 0.2-1.0 | 0.28 | 0.28 |
| | | 35-80 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.32 |
| Lerdal | 10 | 0-8 | 27-32 | 1.15-1.25 | 0.6-2 | 0.18-0.22 | 3.0-5.9 | 4.0-6.0 | 0.37 | 0.37 | 5 | 6 | 48
| | | 8-12 | 27-32 | 1.15-1.25 | 0.6-2 | 0.18-0.22 | 3.0-5.9 | 0.2-1.5 | 0.37 | 0.37 |
| Mazaska | 5 | 0-15 | 27-40 | 1.15-1.30 | 0.2-0.6 | 0.17-0.22 | 6.0-8.9 | 4.0-7.0 | 0.28 | 0.28 | 5 | 7 | 38
| | | 15-42 | 35-50 | 1.25-1.40 | 0.06-0.2 | 0.10-0.16 | 6.0-8.9 | 0.5-2.0 | 0.28 | 0.28 |
| | | 42-80 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.32 |
| L41C2: | 45 | 0-7 | 20-27 | 1.30-1.40 | 0.6-2 | 0.20-0.22 | 0.0-2.9 | 1.0-3.0 | 0.28 | 0.28 | 5 | 6 | 48
| | | 7-38 | 24-32 | 1.45-1.55 | 0.6-2 | 0.15-0.19 | 3.0-5.9 | 0.5-1.0 | 0.28 | 0.28 |
| | | 38-60 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| | | 60-80 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| Kilkenny, eroded | 40 | 0-9 | 27-30 | 1.15-1.25 | 0.2-0.6 | 0.17-0.19 | 3.0-5.9 | 1.0-3.0 | 0.28 | 0.28 | 5 | 6 | 48
| | | 9-53 | 35-45 | 1.25-1.35 | 0.2-0.6 | 0.15-0.19 | 3.0-5.9 | 0.2-1.0 | 0.28 | 0.28 |
| | | 53-80 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| Terril | 10 | 0-27 | 18-26 | 1.35-1.40 | 0.6-2 | 0.20-0.22 | 0.0-2.9 | 3.0-5.0 | 0.24 | 0.24 | 5 | 6 | 48
| | | 27-40 | 24-30 | 1.40-1.45 | 0.6-2 | 0.17-0.19 | 0.0-2.9 | 2.0-4.0 | 0.28 | 0.28 |
| | | 40-63 | 22-30 | 1.40-1.55 | 0.6-2 | 0.16-0.18 | 0.0-2.9 | 0.0-1.0 | 0.32 | 0.32 |
| | | 63-80 | 20-30 | 1.40-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
### Table 18.—Physical Properties of the Soils—Continued

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Table 18.--Physical Properties of the Soils--Continued

<p>| Map symbol and | Pct. of | Depth | Clay | Moist | Permeability | Available | Linear | Organic | Erosion factors | Wind | Wind |
| component name | map unit | | g/cc | bulk density | | | water capacity | extensibility | | erodibility | erodibility |
| | | In/hr | | In/in | | Pct | Kw | Kf | T | group | index |
| Hamel-- | | | | | | | | | | |
| L61C2: | 3 | 0-24 | 20-27 | 1.30-1.40 | 0.6-2 | 0.20-0.24 | 0.0-2.9 | 5.0-7.0 | 0.28 | 0.28 | 5 | 6 | 48 |
| 24-46 | 24-35 | 1.45-1.60 | 0.2-0.6 | 0.16-0.19 | 3.0-5.9 | 1.0-4.0 | 0.28 | 0.28 |
| 46-80 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| Lester, eroded-- | 55 | 0-7 | 20-27 | 1.30-1.40 | 0.6-2 | 0.20-0.22 | 0.0-2.9 | 1.0-3.0 | 0.28 | 0.28 | 5 | 6 | 48 |
| 7-38 | 24-32 | 1.45-1.55 | 0.6-2 | 0.15-0.19 | 3.0-5.9 | 0.5-1.0 | 0.28 | 0.28 |
| 38-60 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| 60-80 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| Metea, eroded-- | 25 | 0-8 | 2-8 | 1.40-1.60 | 6-20 | 0.10-0.12 | 0.0-2.9 | 1.0-2.0 | 0.17 | 0.17 | 5 | 2 | 134 |
| 8-24 | 2-8 | 1.45-1.60 | 6-20 | 0.08-0.10 | 0.0-2.9 | 0.0-0.5 | 0.17 | 0.17 |
| 24-46 | 18-30 | 1.40-1.55 | 0.2-2 | 0.15-0.18 | 3.0-5.9 | 0.0-0.5 | 0.37 | 0.37 |
| 46-60 | 20-30 | 1.40-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.0-0.5 | 0.32 | 0.37 |
| Ridgeton-- | 5 | 0-23 | 18-26 | 1.35-1.40 | 0.6-2 | 0.20-0.22 | 0.0-2.9 | 3.0-5.0 | 0.24 | 0.24 | 5 | 6 | 48 |
| 23-38 | 24-30 | 1.40-1.45 | 0.6-2 | 0.17-0.19 | 0.0-2.9 | 2.0-4.0 | 0.28 | 0.28 |
| 38-50 | 22-30 | 1.40-1.55 | 0.6-2 | 0.16-0.18 | 0.0-2.9 | 0.8-2.5 | 0.32 | 0.32 |
| 50-80 | 20-30 | 1.40-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| Hamel-- | 3 | 0-24 | 20-27 | 1.30-1.40 | 0.6-2 | 0.20-0.24 | 0.0-2.9 | 5.0-7.0 | 0.28 | 0.28 | 5 | 6 | 48 |
| 24-46 | 24-35 | 1.45-1.60 | 0.2-0.6 | 0.16-0.19 | 3.0-5.9 | 1.0-4.0 | 0.28 | 0.28 |
| 46-80 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| L61E: | | | | | | | | | |
| Lester-- | 55 | 0-5 | 20-27 | 1.30-1.40 | 0.6-2 | 0.20-0.22 | 0.0-2.9 | 4.0-8.0 | 0.28 | 0.28 | 5 | 6 | 48 |
| 5-34 | 24-32 | 1.45-1.55 | 0.6-2 | 0.15-0.19 | 3.0-5.9 | 0.5-1.0 | 0.28 | 0.28 |
| 34-60 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| 60-80 | 20-30 | 1.35-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| Metea-- | 25 | 0-8 | 2-8 | 1.40-1.60 | 6-20 | 0.10-0.12 | 0.0-2.9 | 2.0-5.0 | 0.17 | 0.17 | 5 | 2 | 134 |
| 8-24 | 2-8 | 1.45-1.60 | 6-20 | 0.08-0.10 | 0.0-2.9 | 0.0-0.5 | 0.17 | 0.17 |
| 24-46 | 18-30 | 1.40-1.55 | 0.2-2 | 0.15-0.18 | 3.0-5.9 | 0.0-0.5 | 0.37 | 0.37 |
| 46-60 | 20-30 | 1.40-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.0-0.5 | 0.32 | 0.37 |
| Terril-- | 10 | 0-24 | 18-26 | 1.35-1.40 | 0.6-2 | 0.20-0.22 | 0.0-2.9 | 3.0-5.0 | 0.24 | 0.24 | 5 | 6 | 48 |
| 24-37 | 24-30 | 1.40-1.45 | 0.6-2 | 0.17-0.19 | 0.0-2.9 | 2.0-4.0 | 0.28 | 0.28 |
| 37-57 | 22-30 | 1.40-1.55 | 0.6-2 | 0.16-0.18 | 0.0-2.9 | 0.0-1.0 | 0.32 | 0.32 |
| 57-80 | 20-30 | 1.40-1.55 | 0.6-2 | 0.15-0.19 | 1.0-4.2 | 0.1-0.5 | 0.32 | 0.37 |
| Map symbol and | Pct. of | Depth | Clay | Moist | Permeability | Available | Linear | Organic | Erosion factors | Wind erosion factors |
| component name | map unit |       |      | bulk density |            | capacity | extensi- | matter | Kw | Kf | T | index |
|                |         | In | Pct | g/cc | In/hr | In/in | Pct | Pct |     |     |     |      |   |
| L61E:          |         | In | 22 | 41-80 | 3.0-5.9 | 1.0-4.0 | 0.10-0.10 | 0.0-1.0 | .20 | .20 | 3 | 86 |
| Hamel----------- | 0-22 | 20-27 | 1.30-1.40 | 0.6-2 | 0.20 | 0.24 | 0.0-2.9 | 5.0-7.0 | .28 | .28 | 5 | 6 | 48 |
| Ridgeton-------- | 0-32 | 18-26 | 1.35-1.55 | 0.6-2 | 0.15 | 0.21 | 0.0-2.9 | 5.0-6.0 | .28 | .28 | 5 | 6 | 48 |
| L62B:          | 0-10 | 10-20 | 1.20-1.40 | 2-6 | 0.20 | 0.22 | 0.0-2.9 | 0.0-4.0 | .28 | .28 | 5 | 3 | 86 |
| Koronis--------- | 20-30 | 3-10 | 1.40-1.60 | 0.6-2 | 0.10 | 0.18 | 0.0-2.9 | 2.0-4.0 | .20 | .20 | 5 | 3 | 86 |
| Malard--------- | 0-9 | 5-10 | 1.40-1.55 | 2-6 | 0.13 | 0.19 | 0.0-2.9 | 0.0-4.0 | .20 | .20 | 3 | 3 | 86 |
| Forestcity------ | 5 | 0-22 | 10-18 | 1.20-1.40 | 2-6 | 0.14 | 0.17 | 0.0-2.9 | 4.0-8.0 | .20 | .20 | 5 | 3 | 86 |
| L62C2:         | 0-10 | 10-20 | 1.20-1.40 | 2-6 | 0.20 | 0.22 | 0.0-2.9 | 0.0-4.0 | .28 | .28 | 5 | 3 | 86 |
| Koronis, eroded | 25 | 0-7 | 1.40-1.60 | 0.6-2 | 0.10 | 0.18 | 0.0-2.9 | 1.0-4.0 | .20 | .20 | 5 | 3 | 86 |
| Malard, eroded  | 25 | 0-9 | 5-15 | 1.40-1.55 | 2-6 | 0.13 | 0.17 | 0.0-2.9 | 1.0-4.0 | .20 | .20 | 3 | 3 | 86 |</p>
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<th>Linear extensibility</th>
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Table 19.--Chemical Properties of the Soils
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**Table 19.--Chemical Properties of the Soils--Continued**

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Table 19.--Chemical Properties of the Soils--Continued

<p>| Map symbol and component name | Pct. of map unit | Depth | Cation-exchange capacity | Soil reaction | Calcium carbonate | Gypsum Pct | Pct |
|-----------------------------|-----------------|-------|--------------------------|---------------|-------------------|------------|
| D21A:                       |                 |       |                          |               |                   |            |
| Isan, depressional---       | 85              | 0-14  | 10-25                    | 5.6-7.3       | ---               | ---        |
|                            | 14-34           | 2.0-10| 5.1-6.5                  | ---           | ---               | ---        |
|                            | 34-80           | 1.0-5.0| 5.6-7.3                  | ---           | ---               | ---        |
| Isan------------------------| 15              | 0-14  | 10-25                    | 5.6-7.3       | ---               | ---        |
|                            | 14-34           | 2.0-10| 5.1-6.5                  | ---           | ---               | ---        |
|                            | 34-80           | 1.0-5.0| 5.6-7.3                  | ---           | ---               | ---        |
| D23A:                       |                 |       |                          |               |                   |            |
| Southhaven------------------| 90              | 0-48  | 15-34                    | 5.1-7.3       | ---               | ---        |
|                            | 48-62           | 7.0-22| 5.1-7.3                  | ---           | ---               | ---        |
|                            | 62-66           | 2.0-4.0| 5.1-7.3                  | ---           | ---               | ---        |
|                            | 66-80           | 1.0-3.0| 5.6-7.8                  | 0-10          | ---               | ---        |
| Dorset----------------------| 5               | 0-11  | 10-23                    | 5.6-7.3       | ---               | ---        |
|                            | 11-19           | 7.0-17| 5.6-7.3                  | ---           | ---               | ---        |
|                            | 19-32           | 3.0-8.0| 6.6-8.4                  | 0-30          | ---               | ---        |
|                            | 32-80           | 0.0-5.0| 7.4-8.4                  | 5-15          | ---               | ---        |
| Mosford---------------------| 5               | 0-13  | 7.0-9.0                  | 5.1-7.3       | ---               | ---        |
|                            | 13-16           | 4.0-22| 5.1-7.3                  | ---           | ---               | ---        |
|                            | 16-35           | 1.0-3.0| 5.1-7.3                  | ---           | ---               | ---        |
|                            | 35-80           | 0.0-2.0| 5.1-7.8                  | 0-15          | ---               | ---        |
| D24A:                       |                 |       |                          |               |                   |            |
| Sedgeville, occasionally flooded | 85         | 0-15  | 10-45                    | 6.1-7.8       | 0-20              | ---        |
|                            | 15-45           | 5.0-20| 6.1-7.8                  | 0-20          | ---               | ---        |
|                            | 45-80           | 2.0-5.0| 6.6-8.4                  | 0-20          | ---               | ---        |
| Elkriver, occasionally flooded | 15         | 0-10  | 6.0-19                    | 5.1-7.3       | ---               | ---        |
|                            | 10-26           | 6.0-19| 5.1-7.3                  | ---           | ---               | ---        |
|                            | 26-32           | 4.0-15| 5.6-7.8                  | 0-8           | ---               | ---        |
|                            | 32-80           | 0.0-6.0| 5.6-7.8                  | 0-8           | ---               | ---        |
| D25A:                       |                 |       |                          |               |                   |            |
| Soderville, terrace---     | 90              | 0-9   | 1.0-8.0                  | 5.1-6.5       | ---               | ---        |
|                            | 9-24            | 1.0-6.0| 5.1-6.5                  | ---           | ---               | ---        |
|                            | 24-31           | 2.0-7.0| 5.1-6.5                  | ---           | ---               | ---        |
|                            | 31-60           | 1.0-3.0| 5.1-6.5                  | ---           | ---               | ---        |
| Forada----------------------| 10              | 0-10  | 10-20                    | 6.1-7.3       | ---               | ---        |
|                            | 10-33           | 5.0-15| 6.1-7.3                  | ---           | ---               | ---        |
|                            | 33-60           | 1.0-5.0| 6.1-8.4                  | 0-15          | ---               | ---        |
| D26A:                       |                 |       |                          |               |                   |            |
| Foldahl, MAP &gt;25-----      | 90              | 0-16  | 2.0-13                    | 5.6-6.6       | ---               | ---        |
|                            | 16-31           | 1.0-5.0| 5.6-6.6                  | ---           | ---               | ---        |
|                            | 31-40           | 7.0-21| 6.1-7.3                  | ---           | ---               | ---        |
|                            | 40-60           | 7.0-21| 7.4-8.4                  | 10-20         | 0-1               | ---        |
| Hubbard---------------------| 5               | 0-20  | 6.0-16                    | 5.1-7.3       | ---               | ---        |
|                            | 20-32           | 1.0-4.0| 5.1-7.3                  | ---           | ---               | ---        |
|                            | 32-80           | 0.0-4.0| 5.6-7.8                  | 0-15          | ---               | ---        |
| Isan------------------------| 5               | 0-14  | 10-25                    | 5.6-7.3       | ---               | ---        |
|                            | 14-34           | 2.0-10| 5.1-6.5                  | ---           | ---               | ---        |
|                            | 34-80           | 1.0-5.0| 5.6-7.3                  | ---           | ---               | ---        |</p>
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<th>Cation-exchange capacity</th>
<th>Soil reaction</th>
<th>Calcium carbonate</th>
<th>Gypsum</th>
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Table 19.—Chemical Properties of the Soils—Continued

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Table 19.--Chemical Properties of the Soils--Continued

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Table 19.--Chemical Properties of the Soils--Continued

| Map symbol and component name | Pct. of map unit | Depth | Cation-exchange capacity | Soil reaction | Calcium carbonate | Gypsum | | In meq/100 g | pH | Pct | Pct |
|--------------------------------|------------------|-------|--------------------------|---------------|------------------|--------|---|---|---|---|
| L41D2:                         |                  |       |                          |               |                  |        | | | | | |
| Lester, eroded                 | 45               | 0-7   | 10-24                    | 5.6-7.3       |                  |        | | | | | |
|                               |                  | 7-38  | 10-23                    | 5.1-7.3       |                  |        | | | | | |
|                               |                  | 38-60 | 10-20                    | 7.4-8.4       | 15-25            | 0-1    | | | | | |
|                               |                  | 60-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Kilkenny, eroded               | 35               | 0-9   | 20-30                    | 5.6-7.3       |                  |        | | | | | |
|                               |                  | 53-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Terril                         | 10               | 0-27  | 20-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 7-38  | 10-23                    | 5.1-7.3       |                  |        | | | | | |
|                               |                  | 38-60 | 10-20                    | 7.4-8.4       | 15-25            | 0-1    | | | | | |
|                               |                  | 60-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Derrynane                      | 5                | 0-19  | 25-40                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 19-39 | 25-45                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 39-65 | 20-30                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 55-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Ridgeton                       | 5                | 0-23  | 20-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 23-38 | 20-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 38-50 | 15-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 50-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| L41E:                          |                  |       |                          |               |                  |        | | | | | |
| Lester                         | 45               | 0-5   | 10-24                    | 5.6-7.3       |                  |        | | | | | |
|                               |                  | 5-34  | 10-23                    | 5.1-7.3       |                  |        | | | | | |
|                               |                  | 34-60 | 10-20                    | 7.4-8.4       | 15-25            | 0-1    | | | | | |
|                               |                  | 60-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Kilkenny                       | 35               | 0-7   | 20-30                    | 5.6-7.3       |                  |        | | | | | |
|                               |                  | 7-31  | 25-35                    | 5.1-7.3       |                  |        | | | | | |
|                               |                  | 31-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Terril                         | 5                | 0-24  | 20-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 24-37 | 20-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 37-57 | 15-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 57-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Derrynane                      | 5                | 0-20  | 25-40                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 20-40 | 25-45                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 40-54 | 20-30                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 54-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Ridgeton                       | 5                | 0-32  | 20-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 32-40 | 15-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 40-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| L41F:                          |                  |       |                          |               |                  |        | | | | | |
| Lester                         | 45               | 0-5   | 10-24                    | 5.6-7.3       |                  |        | | | | | |
|                               |                  | 5-34  | 10-23                    | 5.1-7.3       |                  |        | | | | | |
|                               |                  | 34-60 | 10-20                    | 7.4-8.4       | 15-25            | 0-1    | | | | | |
|                               |                  | 60-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Kilkenny                       | 35               | 0-7   | 20-30                    | 5.6-7.3       |                  |        | | | | | |
|                               |                  | 7-31  | 25-35                    | 5.1-7.3       |                  |        | | | | | |
|                               |                  | 31-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
| Ridgeton                       | 5                | 0-32  | 20-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 32-40 | 15-25                    | 6.1-7.3       |                  |        | | | | | |
|                               |                  | 40-80 | 10-20                    | 7.4-8.4       | 10-20            | 0-1    | | | | | |
## Table 19.--Chemical Properties of the Soils--Continued

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Table 19.—Chemical Properties of the Soils—Continued

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Table 19.—Chemical Properties of the Soils—Continued

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| component name | map unit |       |               |            |                  |        |
| L62D2:          |         |       |              |            |                  |        |
| Koronis, eroded  | 40      | 0-10  | 5.0-20        | 5.6-7.3     | ---              | ---    |
|                 |         | 10-30 | 10-20         | 5.6-7.3     | ---              | ---    |
|                 |         | 30-60 | 5.0-15        | 7.4-8.4     | 5-20             | ---    |
| Kingsley, eroded | 25      | 0-7   | 5.0-14        | 5.6-6.5     | ---              | ---    |
|                 |         | 7-14  | 1.0-7.0       | 5.6-6.5     | ---              | ---    |
|                 |         | 14-34 | 2.0-12        | 5.1-7.3     | ---              | ---    |
|                 |         | 34-60 | 2.0-7.0       | 5.6-7.8     | 0-5              | ---    |
| Malardi, eroded  | 25      | 0-9   | 6.0-19        | 5.6-7.3     | ---              | ---    |
|                 |         | 9-14  | 1.0-12        | 5.6-7.3     | ---              | ---    |
|                 |         | 14-21 | 0.0-6.0       | 5.6-7.3     | ---              | ---    |
|                 |         | 21-80 | 0.0-3.0       | 7.0-8.4     | 0-30             | ---    |
| Forestcity------ | 10      | 0-22  | 10-25         | 6.1-7.3     | ---              | ---    |
|                 |         | 22-36 | 15-25         | 6.1-7.3     | ---              | ---    |
|                 |         | 36-60 | 8.0-20        | 5.6-7.3     | ---              | ---    |
|                 |         | 60-80 | 5.0-12        | 7.4-7.8     | 10-20 0-1        | ---    |
| L62E:           |         |       |              |            |                  |        |
| Koronis--------- | 40      | 0-10  | 5.0-20        | 5.6-7.3     | ---              | ---    |
|                 |         | 10-30 | 10-20         | 5.6-7.3     | ---              | ---    |
|                 |         | 30-60 | 5.0-15        | 7.4-8.4     | 5-20             | ---    |
| Kingsley-------- | 25      | 0-7   | 5.0-14        | 5.6-6.5     | ---              | ---    |
|                 |         | 7-14  | 1.0-7.0       | 5.6-6.5     | ---              | ---    |
|                 |         | 14-34 | 2.0-12        | 5.1-7.3     | ---              | ---    |
|                 |         | 34-60 | 2.0-7.0       | 5.6-7.8     | 0-5              | ---    |
| Malardi--------- | 25      | 0-9   | 6.0-19        | 5.6-7.3     | ---              | ---    |
|                 |         | 9-14  | 1.0-12        | 5.6-7.3     | ---              | ---    |
|                 |         | 14-21 | 0.0-6.0       | 5.6-7.3     | ---              | ---    |
|                 |         | 21-80 | 0.0-3.0       | 7.0-8.4     | 0-30             | ---    |
| Forestcity------ | 10      | 0-22  | 10-25         | 6.1-7.3     | ---              | ---    |
|                 |         | 22-36 | 15-25         | 6.1-7.3     | ---              | ---    |
|                 |         | 36-60 | 8.0-20        | 5.6-7.3     | ---              | ---    |
|                 |         | 60-80 | 5.0-12        | 7.4-7.8     | 10-20 0-1        | ---    |
| L64A:           |         |       |              |            |                  |        |
| Tadkee----------- | 50      | 0-6   | 5.0-20        | 6.1-7.8     | ---              | ---    |
|                 |         | 6-34  | 1.0-10        | 6.1-7.8     | ---              | ---    |
|                 |         | 34-80 | 10-20         | 7.4-8.4     | 10-20 0-1        | ---    |
| Tadkee, depressional | 36      | 0-6   | 30-70         | 6.1-7.8     | ---              | ---    |
|                 |         | 6-27  | 1.0-10        | 6.1-7.8     | ---              | ---    |
|                 |         | 27-80 | 10-20         | 7.4-8.4     | 10-20 0-1        | ---    |
| Better drained soil | 8       | 0-6   | 3.0-8.0       | 6.1-7.3     | ---              | ---    |
|                 |         | 6-25  | 2.0-6.0       | 5.6-7.3     | ---              | ---    |
|                 |         | 25-80 | 10-20         | 7.4-8.4     | 10-20 0-1        | ---    |
| Granby----------- | 4       | 0-12  | 5.0-20        | 5.6-7.3     | ---              | ---    |
|                 |         | 12-24 | 1.0-10        | 5.6-7.8     | ---              | ---    |
|                 |         | 24-60 | 1.0-3.0       | 6.6-8.4     | 0-20             | ---    |
| Less sandy soil  | 2       | 0-4   | 5.0-20        | 7.4-7.8     | 5-15             | ---    |
|                 |         | 4-20  | 10-20         | 7.4-8.4     | 10-20 0-1        | ---    |
|                 |         | 20-80 | 10-20         | 7.4-8.4     | 10-20 0-1        | ---    |
Table 19.--Chemical Properties of the Soils--Continued

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Table 20.--Soil Moisture Status by Depth--Continued

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Table 20.--Soil Moisture Status by Depth--Continued
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Table 20.—Soil Moisture Status by Depth—Continued

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Table 20.--Soil Moisture Status by Depth--Continued
Table 20.--Soil Moisture Status by Depth--Continued

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- **B**: B-Depression
- **C**: C-Undegradation
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L47B: Eden Prairie

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L47C: Eden Prairie

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Table 20.—Soil Moisture Status by Depth—Continued
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Table 20.--Soil Moisture Status by Depth--Continued

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Table 22.—Ponding Frequency, Duration, and Depth

(Depth refers to the depth, in feet, of the water above the surface. See text for definitions of terms used in this table. Absence of an entry indicates that no estimate was made)

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### Footnotes

- **Forestcity**
- **Gotham**
- **Kingsley**
- **Koronis**
- **Lundlake**
- **Marcellon**
- **Metea**
- **Moon**
- **Hamel**

**Legend:**

- **None** indicates no ponding.
- **Frequent** indicates ponding occurring frequently.
- **Long Depth:** 0.5
- **Brief Depth:** 1.0

---

**Table 22—continued:**

**Ponding Frequency, Duration, and Depth—Continued**

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**Legend:**

- **None** indicates no ponding.
- **Frequent** indicates ponding occurring frequently.
- **Long Depth:** 0.5
- **Brief Depth:** 1.0

---

**Table 23—continued:**

**Soil Survey of...**

---

**Footnotes:**

- **Forestcity**
- **Gotham**
- **Kingsley**
- **Koronis**
- **Lundlake**
- **Marcellon**
- **Metea**
- **Moon**
- **Hamel**

---

**Legend:**

- **None** indicates no ponding.
- **Frequent** indicates ponding occurring frequently.
- **Long Depth:** 0.5
- **Brief Depth:** 1.0

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**Table 24—continued:**

**Soil Survey of...**
Table 22.—Ponding Frequency, Duration, and Depth—Continued

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W. Water
### Table 23.—Soil Features

(See text for definitions of terms used in this table. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

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<th>Map symbol and component name</th>
<th>Pct. of map unit</th>
<th>Restrictive layer</th>
<th>Subsidence</th>
<th>Potential for frost action</th>
<th>Risk of corrosion</th>
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Table 23.--Soil Features--Continued
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Table 23.—Soil Features—Continued

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Table 23.—Soil Features—Continued
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References


**Glossary**

**Ablation till.** Loose, permeable till deposited during the final downwasting of glacial ice. Lenses of crudely sorted sand and gravel are common.

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

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

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

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

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

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

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

**Aspect.** The direction in which a slope faces.

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

- Very low .................................................. 0 to 3
- Low ......................................................... 3 to 6
- Moderate ............................................... 6 to 9
- High ....................................................... 9 to 12
- Very high ................................................ more than 12

**Backslope.** The position that forms the steepest and generally linear, middle portion of a hillslope. In profile, backslopes are commonly bounded by a convex shoulder above and a concave footslope below.

**Basal till.** Compact glacial till deposited beneath the ice.

**Base saturation.** The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, and K), expressed as a percentage of the total cation-exchange capacity.

**Base slope.** A geomorphic component of hills consisting of the concave to linear (perpendicular to the contour) slope that, regardless of the lateral shape, forms an apron or wedge at the bottom of a hillside dominated by colluvium and slope-wash sediments (for example, slope alluvium).

**Beach deposits.** Material, such as sand and gravel, that is generally laid down parallel to an active or relict shoreline of a postglacial or glacial lake.

**Bedding planes.** Fine strata, less than 5 millimeters thick, in unconsolidated alluvial, eolian, lacustrine, or marine sediment.

**Bedrock.** The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.

**Bedrock-controlled topography.** A landscape where the configuration and relief of the landforms are determined or strongly influenced by the underlying bedrock.

**Bench terrace.** A raised, level or nearly level strip of earth constructed on or nearly on a contour, supported by a barrier of rocks or similar material, and designed to make the soil suitable for tillage and to prevent accelerated erosion.

**Bisequum.** Two sequences of soil horizons, each of which consists of an illuvial horizon and the overlying eluvial horizons.

**Blowout.** A shallow depression from which all or most of the soil material has been removed by the wind. A blowout has a flat or irregular floor formed by a resistant layer or by an accumulation of pebbles or cobbles. In some blowouts the water table is exposed.

**Bog.** Waterlogged, spongy ground, consisting primarily of mosses, containing acidic, decaying...
vegetation (such as sphagnum, sedges, and heaths) that develops into peat.

**Boulders.** Rock fragments larger than 2 feet (60 centimeters) in diameter.

**Brush management.** Use of mechanical, chemical, or biological methods to make conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.

**Calcereous soil.** A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.

**Canopy.** The leafy crown of trees or shrubs. (See Crown.)

**Capillary water.** Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.

**Catena.** A sequence, or “chain,” of soils on a landscape that formed in similar kinds of parent material but have different characteristics as a result of differences in relief and drainage.

**Cation.** An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.

**Cation-exchange capacity.** The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.

**Catsteps.** Very small, irregular terraces on steep hillsides, especially in pasture, formed by the trampling of cattle or the slippage of saturated soil.

**Channery soil material.** Soil material that has, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a channer.

**Chemical treatment.** Control of unwanted vegetation through the use of chemicals.

**Chiseling.** Tillage with an implement having one or more soil-penetrating points that shatter or loosen hard, compacted layers to a depth below normal plow depth.

**Clay.** As a soil separate, the mineral soil particles less than 0.002 millimeter in diameter. As a soil textural class, soil material that is 40 percent or more clay, less than 45 percent sand, and less than 40 percent silt.

**Clay depletions.** Low-chroma zones having a low content of iron, manganese, and clay because of the chemical reduction of iron and manganese and the removal of iron, manganese, and clay. A type of redoximorphic depletion.

**Clay film.** A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.

**Climax plant community.** The stabilized plant community on a particular site. The plant cover reproduces itself and does not change so long as the environment remains the same.

**Coarse textured soil.** Sand or loamy sand.

**Cobble (or cobblestone).** A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.

**Cobbly soil material.** Material that has 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material has 35 to 60 percent of these rock fragments, and extremely cobbly soil material has more than 60 percent.

**COLE (coefficient of linear extensibility).** See Linear extensibility.

**Colluvium.** Soil material or rock fragments, or both, moved by creep, slide, or local wash and deposited at the base of steep slopes.

**Complex slope.** Irregular or variable slope. Planning or establishing terraces, diversions, and other water-control structures on a complex slope is difficult.

**Complex, soil.** A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.

**Concretions.** Cemented bodies with crude internal symmetry organized around a point, a line, or a plane. They typically take the form of concentric layers visible to the naked eye. Calcium carbonate, iron oxide, and manganese oxide are common compounds making up concretions. If formed in place, concretions of iron oxide or manganese oxide are generally considered a type of redoximorphic concentration.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Depression.** Any relatively sunken part of the earth’s surface; especially a low-lying area surrounded by higher ground. A closed depression has no natural outlet for surface drainage.

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

**Disintegration moraine.** A drift topography characterized by chaotic mounds and pits, generally randomly oriented, developed in supraglacial drift by collapse and flow as the underlying stagnant ice melted. Slopes may be steep and unstable. Abrupt changes between materials of differing lithology are common.

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

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

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

**Drainageway.** A relatively small, linear depression that, at some time, moves concentrated water and
either does not have a defined channel or has only a small defined channel.

Drumlin. A low, smooth, elongated oval hill, mound, or ridge of compact glacial till. The longer axis is parallel to the path of the glacier and commonly has a blunt nose pointing in the direction from which the ice approached.

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

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

End moraine. A ridgelike accumulation that is being or was produced at the outer margin of an actively flowing glacier at any given time.

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

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

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

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

Erosion. The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep. Erosion (geologic). Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.

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

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

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

Esker. A narrow, winding ridge of stratified gravelly and sandy drift deposited by a stream flowing in a tunnel beneath a glacier.

Fan terrace. A relict alluvial fan, no longer a site of active deposition, incised by younger and lower alluvial surfaces.

Fertility, soil. The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.

Fibric soil material (peat). The least decomposed of all organic soil material. Peat contains a large amount of well preserved fiber that is readily identifiable according to botanical origin. Peat has the lowest bulk density and the highest water content at saturation of all organic soil material.

Field moisture capacity. The moisture content of a soil, expressed as a percentage of the oven-dry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called normal field capacity, normal moisture capacity, or capillary capacity.

Fine textured soil. Sandy clay, silty clay, or clay.

Firebreak. An area cleared of flammable material to stop or help control creeping or running fires. It also serves as a line from which to work and to facilitate the movement of firefighters and equipment. Designated roads also serve as firebreaks.

First bottom. The normal flood plain of a stream, subject to frequent or occasional flooding.

Flaggy soil material. Material that has, by volume, 15 to 35 percent flagstones. Very flaggy soil material has 35 to 60 percent flagstones, and extremely flaggy soil material has more than 60 percent flagstones.

Flagstone. A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.

Flood plain. A nearly level alluvial plain that borders a stream and is subject to flooding unless protected artificially.

Foothill. The position that forms the inner, gently inclined surface at the base of a hillside. In profile, foothills are commonly concave. A foothill is a transition zone between upslope sites of erosion and transport (shoulders and backslopes) and downslope sites of deposition (toeslopes).

Forb. Any herbaceous plant not a grass or a sedge.
Forest cover. All trees and other woody plants (underbrush) covering the ground in a forest.

Forest type. A stand of trees similar in composition and development because of given physical and biological factors by which it may be differentiated from other stands.

Fragipan. A loamy, brittle subsurface horizon low in porosity and content of organic matter and low or moderate in clay but high in silt or very fine sand. A fragipan appears cemented and restricts roots. When dry, it is hard or very hard and has a higher bulk density than the horizon or horizons above. When moist, it tends to rupture suddenly under pressure rather than to deform slowly.

Frost action (in tables). Freezing and thawing of soil moisture. Frost action can damage roads, buildings and other structures, and plant roots.

Genesis, soil. The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.

Geomorphology. The science that treats the general configuration of the earth’s surface; specifically, the study of the classification, description, nature, origin, and development of landforms and their relationships to underlying structures, and the history of geologic changes as recorded by these surface features. The term is especially applied to the genetic interpretation of landforms.

Glacial drift. Pulverized and other rock material transported by glacial ice and then deposited. Also, the sorted and unsorted material deposited by streams flowing from glaciers.

Glacial outwash. Gravel, sand, and silt, commonly stratified, deposited by glacial meltwater.

Glacial till. Unsorted, nonstratified glacial drift consisting of clay, silt, sand, and boulders transported and deposited by glacial ice.

Glaciofluvial deposits. Material moved by glaciers and subsequently sorted and deposited by streams flowing from the melting ice. The deposits are stratified and occur as kames, eskers, deltas, and outwash plains.

Glaciolacustrine deposits. Material ranging from fine clay to sand derived from glaciers and deposited in glacial lakes mainly by glacial meltwater. Many deposits are interbedded or laminated.

Gleyed soil. Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.

Graded stripcropping. Growing crops in strips that grade toward a protected waterway.

Grassed waterway. A natural or constructed waterway, typically broad and shallow, seeded to grass as protection against erosion. Conducts surface water away from cropland.

Gravel. Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.

Gravelly soil material. Material that has 15 to 35 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.

Green manure crop (agronomy). A soil-improving crop grown to be plowed under in an early stage of maturity or soon after maturity.

Ground water. Water filling all the unblocked pores of the material below the water table.

Gully. A miniature valley with steep sides cut by running water and through which water ordinarily runs only after rainfall. The distinction between a gully and a rill is one of depth. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage; a rill is of lesser depth and can be smoothed over by ordinary tillage.

Hard bedrock. Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.

Hard to reclaim (in tables). Reclamation is difficult after the removal of soil for construction and other uses. Revegetation and erosion control are extremely difficult.

Head slope. A geomorphic component of hills consisting of a laterally concave area of a hillside, especially at the head of a drainageway. The overland waterflow is converging.

Hemic soil material (mucky peat). Organic soil material intermediate in degree of decomposition between the less decomposed fibric material and the more decomposed sapric material.

Herbaceous peat. An accumulation of organic material, decomposed to some degree, that is predominantly the remains of sedges, reeds, cattails, and other herbaceous plants.

High-chroma zones. Zones having chroma of 3 or more. Typical color in areas of iron concentrations.

High-residue crops. Such crops as small grain and corn used for grain. If properly managed, residue from these crops can be used to control erosion until the next crop in the rotation is established. These crops return large amounts of organic matter to the soil.

Hill. A natural elevation of the land surface, rising as
much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline; hillsides generally have slopes of more than 15 percent. The distinction between a hill and a mountain is arbitrary and is dependent on local usage.

**Horizon, soil.** A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. An explanation of the subdivisions is given in the “Soil Survey Manual.” The major horizons of mineral soil are as follows:

- **O** horizon.—An organic layer of fresh and decaying plant residue.
- **A** horizon.—The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.
- **E** horizon.—The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.
- **B** horizon.—The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.
- **C** horizon.—The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.
- **Cr** horizon.—Soft, consolidated bedrock beneath the soil.
- **R** layer.—Consolidated bedrock beneath the soil. The bedrock commonly underlies a C horizon, but it can be directly below an A or a B horizon.

**Humus.** The well decomposed, more or less stable part of the organic matter in mineral soils.

**Hydrologic soil groups.** Refers to soils grouped according to their runoff potential. The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties are depth to a seasonal high water table, the infiltration rate and permeability after prolonged wetting, and depth to a very slowly permeable layer. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.

**Ice-walled lake plain.** A relict surface marking the floor of an extinct lake basin that was formed on solid ground and surrounded by stagnant ice in a stable or unstable superglacial environment on stagnation moraines. As the ice melted, the lake plain became perched above the adjacent landscape. The lake plain is well sorted, generally fine textured, stratified deposits.

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

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

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

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

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

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

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

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

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

Interfluve. An elevated area between two drainageways that sheds water to those drainageways.

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

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

Iron concentrations. High-chroma zones having a high content of iron and manganese oxide because of chemical oxidation and accumulation, but having a clay content similar to that of the adjacent matrix. A type of redoximorphic concentration.

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

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

Kame. An irregular, short ridge or hill of stratified glacial drift.

Kame moraine. An end moraine that contains numerous kames. A group of kames along the front of a stagnant glacier, commonly comprising the slumped remnants of a formerly continuous outwash plain built up over the foot of rapidly wasting or stagnant ice.

Karst (topography). The relief of an area underlain by limestone that dissolves in differing degrees, thus forming numerous depressions or small basins.

Knoll. A small, low, rounded hill rising above adjacent landforms.

K\textsubscript{sat}. Saturated hydraulic conductivity. (See Permeability.)

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

Lake bed. The bottom of a lake; a lake basin.

Lake plain. A nearly level surface marking the floor of an extinct lake filled by well sorted, generally fine textured, stratified deposits, commonly containing varves.

Lake terrace. A narrow shelf, partly cut and partly built, produced along a lakeshore in front of a scarp line of low cliffs and later exposed when the water level falls.

Lakeshore. A narrow strip of land in contact with or bordering a lake; especially the beach of a lake.

Lamella. A thin (commonly less than 1 cm thick), discontinuous or continuous, generally horizontal layer of fine material (especially clay and iron oxides) that has been pedogenically concentrated (illuviated within a coarser textured eluviated layer several centimeters to several decimeters thick).

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

Large stones (in tables). Rock fragments 3 inches (7.6 centimeters) or more across. Large stones adversely affect the specified use of the soil.
Leaching. The removal of soluble material from soil or other material by percolating water.

Linear extensibility. Refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. Linear extensibility is used to determine the shrink-swell potential of soils. It is an expression of the volume change between the water content of the clod at $\frac{1}{10}$- or $\frac{1}{100}$-bar tension (33kPa or 10kPa tension) and oven dryness. Volume change is influenced by the amount and type of clay minerals in the soil. The volume change is the percent change for the whole soil. If it is expressed as a fraction, the resulting value is COLE, coefficient of linear extensibility.

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

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

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

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

Low-chroma zones. Zones having chroma of 2 or less. Typical color in areas of iron depletions.

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

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

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

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

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

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

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

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

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

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

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

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

Moraine. An accumulation of earth, stones, and other debris deposited by a glacier. Some types are terminal, lateral, medial, and ground.

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

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

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

Mucky peat. Unconsolidated soil material consisting primarily of organic matter that is in an intermediate stage of decomposition such that a significant part of the material can be recognized and a significant part of the material cannot be recognized.

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

Munsell notation. A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

Neutral soil. A soil having a pH value of 6.6 to 7.3. (See Reaction, soil.)

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

**Nose slope.** A geomorphic component of hills consisting of the projecting end (laterally convex area) of a hillside. The overland waterflow is predominantly divergent.

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

**Organic matter.** Plant and animal residue in the soil in various stages of decomposition. The content of organic matter in the surface layer is described as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very low</td>
<td>less than 0.5 percent</td>
</tr>
<tr>
<td>Low</td>
<td>0.5 to 1.0 percent</td>
</tr>
<tr>
<td>Moderately low</td>
<td>1.0 to 2.0 percent</td>
</tr>
<tr>
<td>Moderate</td>
<td>2.0 to 4.0 percent</td>
</tr>
<tr>
<td>High</td>
<td>4.0 to 8.0 percent</td>
</tr>
<tr>
<td>Very high</td>
<td>more than 8.0 percent</td>
</tr>
</tbody>
</table>

**Outwash plain.** A landform of mainly sandy or coarse textured material of glaciofluvial origin. An outwash plain is commonly smooth; where pitted, it generally is low in relief.

**Paleoterrace.** An erosional remnant of a terrace that retains the surface form and alluvial deposits of its origin but was not emplaced by, and commonly does not grade to, a present-day stream or drainage network.

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

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

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

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

**Pedon.** The smallest volume that can be called “a soil.” A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10 square meters), depending on the variability of the soil.

**Percolation.** The movement of water through the soil.

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

- Impermeable .................. less than 0.0015 inch
- Very slow ...................... 0.0015 to 0.06 inch
- Slow ............................. 0.06 to 0.2 inch
- Moderately slow .............. 0.2 to 0.6 inch
- Moderate ...................... 0.6 inch to 2.0 inches
- Moderately rapid .............. 2.0 to 6.0 inches
- Rapid ........................... 6.0 to 20 inches
- Very rapid ..................... more than 20 inches

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

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

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

**Pitted outwash plain.** An outwash plain marked by many irregular depressions, such as kettles, shallow pits, and potholes, which formed by melting of incorporated ice masses; common in Wisconsin and Minnesota.

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

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

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

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

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

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

**Potential native plant community.** See Climax plant community.

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

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

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

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

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

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

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

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

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

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

**Reduced matrix.** A soil matrix that has low chroma in situ because of chemically reduced iron (Fe II). The chemical reduction results from nearly continuous wetness. The matrix undergoes a change in hue or chroma within 30 minutes after exposure to air as the iron is oxidized (Fe III). A type of redoximorphic feature.

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

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

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

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

**Rise.** A slight increase in elevation of the land surface, typically with a broad summit and gently sloping sides.

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

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

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

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

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

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

**Sandstone.** Sedimentary rock containing dominantly sand-sized particles.

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

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

**Saturated hydraulic conductivity \( (K_{\text{sat}}) \).** See Permeability.

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

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

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

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

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

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

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

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

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

**Shoulder.** The position that forms the uppermost inclined surface near the top of a hillslope. It is a transition from backslope to summit. The surface is dominantly convex in profile and erosional in origin.

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

**Side slope.** A geomorphic component of hills consisting of a laterally planar area of a hillside. The overland waterflow is predominantly parallel.

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

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

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

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

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

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

**Slope.** The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance.

**Sloughed till.** Water-saturated till that has flowed slowly downhill from its original place of deposit by glacial ice. It may rest on other till, on glacial outwash, or on a glaciolacustrine deposit.

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

**Sodium adsorption ratio (SAR).** A measure of the amount of sodium (Na) relative to calcium (Ca) and magnesium (Mg) in the water extract from saturated soil paste. It is the ratio of the Na concentration divided by the square root of one-half of the Ca + Mg concentration.

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

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

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

<table>
<thead>
<tr>
<th>Size of Separates</th>
<th>Diameter Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very coarse sand</td>
<td>2.0 to 1.0</td>
</tr>
<tr>
<td>Coarse sand</td>
<td>1.0 to 0.5</td>
</tr>
<tr>
<td>Medium sand</td>
<td>0.5 to 0.25</td>
</tr>
<tr>
<td>Fine sand</td>
<td>0.25 to 0.10</td>
</tr>
<tr>
<td>Very fine sand</td>
<td>0.10 to 0.05</td>
</tr>
<tr>
<td>Silt</td>
<td>0.05 to 0.002</td>
</tr>
<tr>
<td>Clay</td>
<td>less than 0.002</td>
</tr>
</tbody>
</table>

**Solum.** The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.

**Stagnation moraine.** A body of drift released by the melting of a glacier that ceased flowing. Commonly, but not always, occurs near ice margins; composed of till, ice-contact stratified drift, and small areas of glacial lake sediment. Typical landforms are knob-and-kettle topography, locally including ice-walled lake plains.

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

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

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

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

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

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

**Subsidence.** The potential decrease in surface elevation as a result of the drainage of wet soils that have organic layers or semifluid mineral layers. Subsidence, as a result of drainage, is attributed to (1) shrinkage from drying, (2) consolidation because of the loss of ground-water buoyancy, (3) compaction from tillage or manipulation, (4) wind erosion, (5) burning, and (6) biochemical oxidation.

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

**Subsoiling.** Tilling a soil below normal plow depth, ordinarily to shatter or loosen a layer that restricts roots.

**Substratum.** The part of the soil below the solum.

**Subsurface layer.** Any surface soil horizon (A, E, AB, or EB) below the surface layer.

**Summit.** The topographically highest position of a hillslope. It has a nearly level (planar or only slightly convex) surface.

**Surface layer.** The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters). Frequently designated as the “plow layer,” or the “Ap horizon.”

**Surface soil.** The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.

**Swale.** A slight depression in the midst of generally level land. A shallow depression in an undulating ground moraine caused by uneven glacial deposition.

**Terminal moraine.** A belt of thick glacial drift that generally marks the termination of important glacial advances.

**Terrace.** An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field generally is built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.

**Terrace (geologic).** An old alluvial plain, ordinarily flat or undulating, bordering a river, a lake, or the sea.
**Texture, soil.** The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, and clay. The sand, loamy sand, and sandy loam classes may be further divided by specifying “coarse,” “fine,” or “very fine.”

**Thin layer** (in tables). Otherwise suitable soil material that is too thin for the specified use.

**Till plain.** An extensive area of nearly level to undulating soils underlain by glacial till.

**Tilth, soil.** The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.

**Toeslope.** The position that forms the gently inclined surface at the base of a hillslope. Toeslopes in profile are commonly gentle and linear and are constructional surfaces forming the lower part of a hillslope continuum that grades to valley or closed-depression floors.

**Topsoil.** The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.

**Trace elements.** Chemical elements, for example, zinc, cobalt, manganese, copper, and iron, in soils in extremely small amounts. They are essential to plant growth.

**Upland.** Land at a higher elevation, in general, than the alluvial plain or stream terrace; land above the lowlands along streams.

**Valley fill.** In glaciated regions, material deposited in stream valleys by glacial meltwater. In nonglaciated regions, alluvium deposited by heavily loaded streams.

**Variegation.** Refers to patterns of contrasting colors assumed to be inherited from the parent material rather than to be the result of poor drainage.

**Water bars.** Smooth, shallow ditches or depressional areas that are excavated at an angle across a sloping road. They are used to reduce the downward velocity of water and divert it off and away from the road surface. Water bars can easily be driven over if constructed properly.

**Weathering.** All physical and chemical changes produced in rocks or other deposits at or near the earth’s surface by atmospheric agents. These changes result in disintegration and decomposition of the material.

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

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

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

**Woody peat.** An accumulation of organic material that is predominantly composed of trees, shrubs, and other woody plants.