



In cooperation with
Illinois Agricultural
Experiment Station



Soil Survey of Pulaski County, Illinois

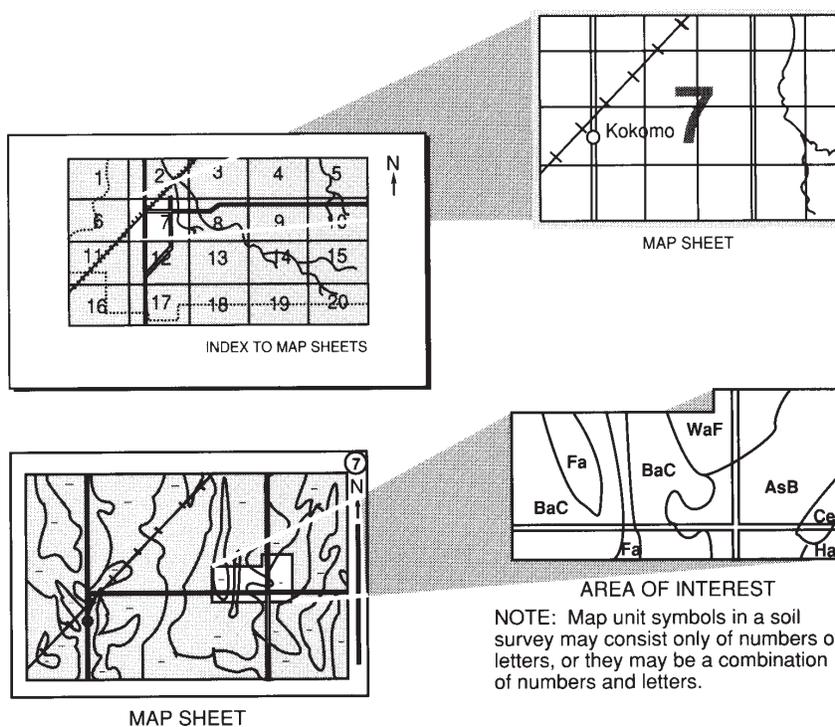
How To Use This Soil Survey

The detailed soil maps 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 go to that sheet.

Locate your area of interest on the map sheet. Note the map unit symbols that are in that area. Go to the **Contents**, which lists the map units by symbol and name and shows the page where each map unit is described.

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



National Cooperative Soil Survey

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 2002. Unless otherwise indicated, statements in this publication refer to conditions in the survey area in 2002. This survey was made cooperatively by the Natural Resources Conservation Service and the Illinois Agricultural Experiment Station. The survey is part of the technical assistance furnished to the Pulaski County Soil and Water Conservation District. Financial assistance was provided by the Pulaski County Board, the Illinois Department of Agriculture, and the United States Department of the Interior, Fish and Wildlife Service. 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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Contents

Cover	i
How To Use This Soil Survey	iii
Contents	v
Foreword	xi
Introduction	1
General Nature of the County	1
How This Soil Survey Was Made	4
Detailed Soil Map Units	7
79B—Menfro silt loam, 2 to 5 percent slopes	8
79C—Menfro silt loam, 5 to 10 percent slopes	9
79C2—Menfro silt loam, 5 to 10 percent slopes, eroded	9
79C3—Menfro silt loam, 5 to 10 percent slopes, severely eroded	10
79D—Menfro silt loam, 10 to 18 percent slopes	11
79D2—Menfro silt loam, 10 to 18 percent slopes, eroded	12
79D3—Menfro silt loam, 10 to 18 percent slopes, severely eroded	12
79E—Menfro silt loam, 18 to 25 percent slopes	13
79E2—Menfro silt loam, 18 to 25 percent slopes, eroded	14
79E3—Menfro silt loam, 18 to 25 percent slopes, severely eroded	15
79F—Menfro silt loam, 25 to 35 percent slopes	15
164A—Stoy silt loam, 0 to 2 percent slopes	16
164B—Stoy silt loam, 2 to 5 percent slopes	17
165A—Weir silt loam, 0 to 2 percent slopes	18
175B—Lamont fine sandy loam, 2 to 5 percent slopes	18
214B—Hosmer silt loam, 2 to 5 percent slopes	19
214C—Hosmer silt loam, 5 to 10 percent slopes	20
214C2—Hosmer silt loam, 5 to 10 percent slopes, eroded	21
214C3—Hosmer silt loam, 5 to 10 percent slopes, severely eroded	22
214D2—Hosmer silt loam, 10 to 18 percent slopes, eroded	22
214D3—Hosmer silt loam, 10 to 18 percent slopes, severely eroded	23
216D2—Stookey silt loam, 10 to 18 percent slopes, eroded	24
216E—Stookey silt loam, 18 to 25 percent slopes	25
216E2—Stookey silt loam, 18 to 25 percent slopes, eroded	26
216E3—Stookey silt loam, 18 to 25 percent slopes, severely eroded	26
216F—Stookey silt loam, 25 to 35 percent slopes	27
216G—Stookey silt loam, 35 to 70 percent slopes	28
308B—Alford silt loam, 2 to 5 percent slopes	29
308C—Alford silt loam, 5 to 10 percent slopes	29
308C2—Alford silt loam, 5 to 10 percent slopes, eroded	30
308C3—Alford silt loam, 5 to 10 percent slopes, severely eroded	31
308D—Alford silt loam, 10 to 18 percent slopes	32
308D2—Alford silt loam, 10 to 18 percent slopes, eroded	32
308D3—Alford silt loam, 10 to 18 percent slopes, severely eroded	33
308E—Alford silt loam, 18 to 25 percent slopes	34
308E2—Alford silt loam, 18 to 25 percent slopes, eroded	35
308E3—Alford silt loam, 18 to 25 percent slopes, severely eroded	36

308F—Alford silt loam, 25 to 35 percent slopes	36
453C—Muren silt loam, 5 to 10 percent slopes	37
453C3—Muren silt loam, 5 to 10 percent slopes, severely eroded	38
453D2—Muren silt loam, 10 to 18 percent slopes, eroded	39
453D3—Muren silt loam, 10 to 18 percent slopes, severely eroded	40
477B—Winfield silt loam, 2 to 5 percent slopes	40
477C2—Winfield silt loam, 5 to 10 percent slopes, eroded	41
477C3—Winfield silt loam, 5 to 10 percent slopes, severely eroded	42
477D2—Winfield silt loam, 10 to 18 percent slopes, eroded	43
477D3—Winfield silt loam, 10 to 18 percent slopes, severely eroded	44
694D2—Menfro-Baxter complex, 10 to 18 percent slopes, eroded	45
694F—Menfro-Baxter complex, 18 to 35 percent slopes	46
717F—Stookey-Clarksville complex, 18 to 35 percent slopes	47
717G—Clarksville-Stookey complex, 35 to 70 percent slopes	48
801B—Orthents, silty, undulating	49
802D—Orthents, loamy, hilly	50
864—Pits, quarries	50
865—Pits, gravel	51
1843A—Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded	51
1845A—Darwin and Jacob silty clays, undrained, 0 to 2 percent slopes, frequently flooded	52
1846A—Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded	53
3070A—Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded	54
3070L—Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	55
3071A—Darwin silty clay, 0 to 2 percent slopes, frequently flooded	56
3072A—Sharon silt loam, 0 to 3 percent slopes, frequently flooded	57
3108A—Bonnie silt loam, 0 to 2 percent slopes, frequently flooded	58
3162L—Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration	58
3180A—Dupo silt loam, 0 to 2 percent slopes, frequently flooded	59
3284A—Tice silty clay loam, 0 to 2 percent slopes, frequently flooded	60
3284L—Tice silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	61
3288A—Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded	62
3288L—Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	63
3331A—Haymond silt loam, 0 to 3 percent slopes, frequently flooded	63
3331L—Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration	64
3333A—Wakeland silt loam, 0 to 2 percent slopes, frequently flooded	65
3333L—Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration	66

3334A—Birds silt loam, 0 to 2 percent slopes, frequently flooded	67
3334L—Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration	68
3382A—Belknap silt loam, 0 to 2 percent slopes, frequently flooded	68
3420A—Piopolis silty clay loam, 0 to 2 percent slopes, frequently flooded	69
3422A—Cape silty clay loam, 0 to 2 percent slopes, frequently flooded	70
3422A+—Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded	71
3426A—Karnak silty clay, 0 to 2 percent slopes, frequently flooded	72
3426A+—Karnak silt loam, overwash, 0 to 2 percent slopes, frequently flooded	73
3426L—Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration	74
3449L—Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration	74
3456BL—Ware loam, 1 to 6 percent slopes, frequently flooded, long duration	76
3597L—Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration	76
5079B2—Menfro silt loam, karst, 2 to 5 percent slopes, eroded	77
5079C3—Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded	78
5079D3—Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded	79
7084A—Okaw silt loam, 0 to 2 percent slopes, rarely flooded	80
7122B—Colp silt loam, 2 to 5 percent slopes, rarely flooded	80
7122C2—Colp silt loam, 5 to 10 percent slopes, eroded, rarely flooded	81
7122D2—Colp silt loam, 10 to 18 percent slopes, eroded, rarely flooded	82
7131A—Alvin fine sandy loam, 0 to 2 percent slopes, rarely flooded	83
7131B—Alvin fine sandy loam, 2 to 5 percent slopes, rarely flooded	84
7131C—Alvin fine sandy loam, 5 to 10 percent slopes, rarely flooded	84
7131C2—Alvin fine sandy loam, 5 to 10 percent slopes, eroded, rarely flooded	85
7131D2—Alvin fine sandy loam, 10 to 18 percent slopes, eroded, rarely flooded	86
7338A—Hurst silt loam, 0 to 2 percent slopes, rarely flooded	87
7338B—Hurst silt loam, 2 to 5 percent slopes, rarely flooded	88
7401A—Okaw silty clay loam, 0 to 2 percent slopes, rarely flooded	89
7460A—Ginat silt loam, 0 to 2 percent slopes, rarely flooded	89
7462A—Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded	90
7462B—Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded	91
7462C2—Sciotoville silt loam, 5 to 10 percent slopes, eroded, rarely flooded	92
7462C3—Sciotoville silt loam, 5 to 10 percent slopes, severely eroded, rarely flooded	93
7462D2—Sciotoville silt loam, 10 to 18 percent slopes, eroded, rarely flooded	94
7462D3—Sciotoville silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded	94
7463A—Wheeling silt loam, 0 to 2 percent slopes, rarely flooded	95
7463B—Wheeling silt loam, 2 to 5 percent slopes, rarely flooded	96
7463C2—Wheeling silt loam, 5 to 10 percent slopes, eroded, rarely flooded	97

7463D3—Wheeling silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded	98
7711A—Hatfield silt loam, 0 to 2 percent slopes, rarely flooded	99
7711B—Hatfield silt loam, 2 to 5 percent slopes, rarely flooded	99
8070A—Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded	100
8071A—Darwin silty clay, 0 to 2 percent slopes, occasionally flooded	101
8072A—Sharon silt loam, 0 to 3 percent slopes, occasionally flooded	102
8085A—Jacob silty clay, 0 to 2 percent slopes, occasionally flooded	103
8108A—Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded	103
8109A—Raccoon silt loam, 0 to 2 percent slopes, occasionally flooded	104
8162A—Gorham silty clay loam, 0 to 2 percent slopes, occasionally flooded	105
8178A—Ruark fine sandy loam, 0 to 2 percent slopes, occasionally flooded	106
8180A—Dupo silt loam, 0 to 2 percent slopes, occasionally flooded	107
8184A—Roby fine sandy loam, 0 to 2 percent slopes, occasionally flooded	108
8184B—Roby fine sandy loam, 2 to 5 percent slopes, occasionally flooded	108
8284A—Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded	109
8288A—Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded	110
8331A—Haymond silt loam, 0 to 3 percent slopes, occasionally flooded	111
8333A—Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded	112
8334A—Birds silt loam, 0 to 2 percent slopes, occasionally flooded	112
8382A—Belknap silt loam, 0 to 2 percent slopes, occasionally flooded	113
8420A—Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded	114
8422A—Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded	115
8422A+—Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded	116
8426A—Karnak clay, 0 to 2 percent slopes, occasionally flooded	116
8426A+—Karnak silt loam, overwash, 0 to 2 percent slopes, occasionally flooded	117
8597A—Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded	118
MW—Miscellaneous water	119
W—Water	119
Use and Management of the Soils	121
Interpretive Ratings	121
Agronomy	122
Hydric Soils	128
Forestland Management	129
Windbreaks and Environmental Plantings	131
Recreation	132
Wildlife Habitat	133
Engineering	135
Building Site Development	136
Sanitary Facilities	137
Construction Materials	139

Water Management	140
Soil Properties	143
Engineering Index Properties	143
Physical Properties	144
Chemical Properties	146
Water Features	146
Soil Features	148
Classification of the Soils	149
Soil Series and Their Morphology	149
Alford Series	150
Alvin Series	151
Armiesburg Series	152
Baxter Series	153
Beaucoup Series	155
Belknap Series	156
Birds Series	157
Bonnie Series	158
Cape Series	159
Clarksville Series	160
Colp Series	161
Darwin Series	164
Dupo Series	165
Ginat Series	167
Gorham Series	169
Hatfield Series	171
Haymond Series	172
Hosmer Series	173
Hurst Series	175
Jacob Series	177
Karnak Series	178
Lamont Series	179
Menfro Series	180
Muren Series	182
Okaw Series	183
Petrolia Series	185
Piopolis Series	187
Racoon Series	188
Roby Series	189
Ruark Series	191
Sarpy Series	192
Sciotoville Series	193
Sharon Series	195
Stokey Series	196
Stoy Series	198
Tice Series	200

Wakeland Series	201
Ware Series	203
Weir Series	204
Wheeling Series	205
Winfield Series	207
Formation of the Soils	211
Factors of Soil Formation	211
Processes of Soil Formation	213
References	215
Glossary	217
Tables	231
Table 1.—Temperature and Precipitation	232
Table 2.—Freeze Dates in Spring and Fall	233
Table 3.—Growing Season	233
Table 4.—Acreage and Proportionate Extent of the Soils	234
Table 5.—Cropland and Pastureland Limitations and Hazards	237
Table 6.—Land Capability and Yields per Acre of Crops and Pasture	246
Table 7.—Prime Farmland	253
Table 8.—Hydric Soils	255
Table 9.—Map Units With Inclusions of Hydric Soils	256
Table 10.—Forestland Management, Part I	257
Table 10.—Forestland Management, Part II	271
Table 10.—Forestland Management, Part III	279
Table 11.—Forestland Productivity	293
Table 12.—Windbreaks and Environmental Plantings	304
Table 13.—Recreational Development, Part I	344
Table 13.—Recreational Development, Part II	360
Table 14.—Wildlife Habitat	374
Table 15.—Building Site Development, Part I	383
Table 15.—Building Site Development, Part II	398
Table 16.—Sanitary Facilities, Part I	416
Table 16.—Sanitary Facilities, Part II	435
Table 17.—Construction Materials, Part I	451
Table 17.—Construction Materials, Part II	463
Table 18.—Water Management, Part I	480
Table 18.—Water Management, Part II	494
Table 18.—Water Management, Part III	510
Table 19.—Engineering Index Properties	526
Table 20.—Physical Properties of the Soils	551
Table 21.—Chemical Soil Properties	571
Table 22.—Water Features	584
Table 23.—Soil Features	596
Table 24.—Classification of the Soils	604

Foreword

This soil survey contains information that affects land use planning in Pulaski County. 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 that affect 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 detailed soil maps. Each soil in the survey area is described. Information on specific uses is given for each soil. 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.

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Soil Survey of Pulaski County, Illinois

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United States Department of Agriculture, Natural Resources Conservation Service, in cooperation with Illinois Agricultural Experiment Station

PULASKI COUNTY is located near the southern tip of Illinois, near the confluence of the Mississippi and Ohio Rivers (fig. 1). The Ohio River flows along the southeastern boundary of Pulaski County, and the Cache River flows along the western and southern boundaries. Mound City, the county seat, is the largest city in the county. Farming, in combination with forestry, contributes a major part of the total income of the county. Corn, soybeans, wheat, hogs, and beef cattle are the leading farm products.

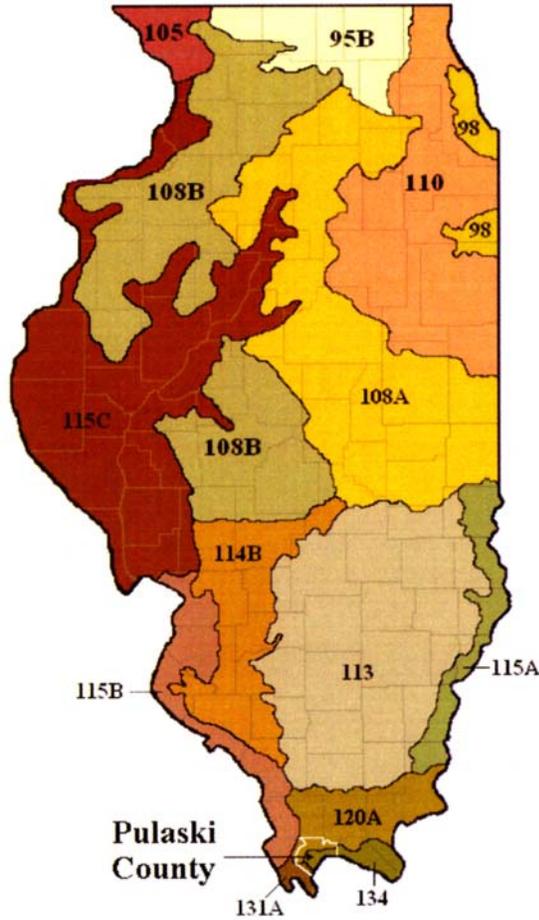
Pulaski County has an area of 130,080 acres, or about 201 square miles. A significant part of the acreage consists of flood plains and low terraces along the Cache and Ohio Rivers. These areas are used mainly for the production of corn, soybeans, and wheat. The distinctly steep and rocky uplands of Pulaski County are used principally for pasture and woodland.

Pulaski County is a subset of three major land resource areas—Kentucky and Indiana Sandstone and Shale Hills and Valleys, Southern Part (MLRA 120A), Southern Mississippi River Alluvium (MLRA 131A), and Southern Mississippi Valley Loess (MLRA 134) (9). See figure 1.

General Nature of the County

Pulaski County was formed in 1843 out of Alexander and Johnson Counties. Most of the early settlers came from the southern states. In 2000, according to the U.S.

Soil Survey of Pulaski County, Illinois



LEGEND	
95B	Southern Wisconsin and Northern Illinois Drift
Plain	
98	Southern Michigan and Northern Indiana Drift
Plain	
105	Northern Mississippi Valley Loess Hills
108A and B	Illinois and Iowa Deep Loess and Drift
110	Northern Illinois and Indiana Heavy Till Plain
113	Central Claypan Area
114B	Southern Illinois and Indiana Thin Loess and Till
	Plain, Western Part
115A, B, and C	Central Mississippi Valley Wooded Slopes
120A	Kentucky and Indiana Sandstone and Shale Hills and Valleys, Southern Part
131A	Southern Mississippi Valley Alluvium
134	Southern Mississippi Valley Loess

Figure 1.—Location of Pulaski County and the major land resource areas (MLRAs) in Illinois.

Census, the county had a total population of 7,348. The population density is approximately 37 people per square mile (22). Approximately 86,000 acres are in farmland and 42,000 acres are in timberland (22). Pulaski County includes 10,102 acres of Cypress Creek National Wildlife Refuge.

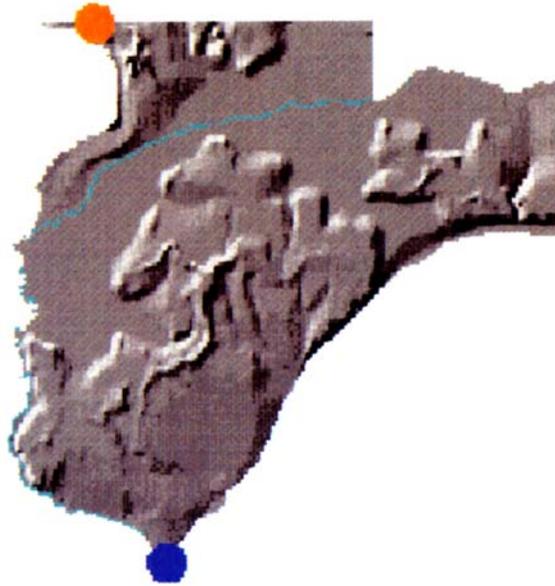


Figure 2.—A generalized relief map of Pulaski County showing the highest point, about 520 feet above mean sea level (orange dot), and the lowest point, about 290 feet above mean sea level (blue dot).

Physiography, Relief, Drainage, and Geology

Pulaski County is located near the southern tip of Illinois, near the junction of the Ohio and the Mississippi Rivers. This area has a variety of landforms and relief.

Elevations in the county range from 290 feet at the confluence of the Cache and Ohio Rivers to 520 feet in the northwestern part of the county near Union County (fig. 2).

A large part of the county consists of alluvial plains and terraces bordering the Mississippi, Ohio, and Cache Rivers.

The uplands of adjacent Alexander County and the northwestern tip of the uplands of Pulaski County form an area of gently rolling hills and knobs that are covered with a moderately thick to thick mantle of loess. Elevation ranges from about 340 to 520 feet. This area is underlain by unconsolidated sand, gravel, and clay of the Coastal Plain province (7), the northernmost extension of the Gulf of Mexico embayment during Cretaceous and Tertiary times.

The uplands in the northwestern part of Pulaski County constitute the most rugged area in the county. This area has relatively narrow ridgetops and steep-sided valley walls. The ridgetops commonly have an elevation of more than 500 feet, and local relief ranges to 120 feet.

The northeastern part of Pulaski County is in the Shawnee section of the Interior Low Plateau province. This area is underlain largely by limestone. A thick mantle of loess covers the ridgetops, and a generally much thinner mantle covers the steep side slopes. In places there are outcrops of rock.

The remaining and larger part of the uplands of Pulaski County is in the Salem Plateau section of the Ozark Plateau province. This area consists of relatively pure chert beds and some local areas of cherty limestone, overlain by thick deposits of loess. In many places erosion has exposed the underlying rock.

Several important changes in the course of the Mississippi and Ohio Rivers in this region date back to the Pleistocene or glacial era (23). Geological evidence indicates

that the silting of the original Mississippi Valley by sediment-laden glacial meltwater caused the river to cut the 61-mile Thebes-Commerce Gorge and to enter the large Ohio Valley northwest and west of Cairo.

During at least a part of the glacial age, the Ohio River flowed more or less from east to west from Golconda, Illinois, to the northern part of Pulaski County and then southwestward through the valley now occupied by the Cache River. The present Ohio River Valley along the southern part of Pulaski County was originally the Tennessee River Valley until the silting of the older Ohio River Valley caused the Ohio River to cut through and divide east of Paducah, Kentucky, claiming the lower Tennessee River Valley. During the glacial age the older Ohio Valley was an important source of loess, and at present the loess in this area is thicker than along the present Ohio Valley in the southern part of Illinois.

The northeastern parts of Pulaski County drain into the Ohio River, principally through the Cache River. The western part and most of the southern part of Pulaski County drain directly into the Mississippi River through a diversion channel.

Ground-water supplies in Pulaski County vary from good or excellent on flood plains and terraces, where aquifers of sand and gravel occur at various depths, to poor on the uplands in the northwestern part of Pulaski County, where consolidated chert and limestone bedrock occur (12).

Climate

Table 1 gives data on temperature and precipitation for the survey area as recorded at Brookport, Illinois, in the period 1971 to 2000. Table 2 shows probable dates of the first freeze in fall and the last freeze in spring. Table 3 provides data on the length of the growing season.

In winter, the average temperature is 36.7 degrees F and the average daily minimum temperature is 27.6 degrees. The lowest temperature on record, which occurred at Brookport on December 2, 1982, was -21 degrees. In summer, the average temperature is 77.0 degrees and the average daily maximum temperature is 87.9 degrees. The highest temperature, which occurred at Brookport on July 14, 1966, was 105 degrees.

Growing degree days are shown in table 1. 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 (50 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 48.17 inches. Of this, 27.36 inches, or about 57 percent, usually falls in April through October. The growing season for most crops falls within this period. The heaviest 1-day rainfall during the period of record was 5.32 inches, recorded at Brookport on February 14, 1989. Thunderstorms occur on about 60 days each year, and most occur between May and August.

The average seasonal snowfall is 8.3 inches. The most snowfall during a winter was 35.3 inches in 1984-85. The heaviest 1-day snowfall on record was 10 inches, recorded on March 9, 1994.

The average relative humidity in mid-afternoon is about 58 percent. Humidity is higher at night, and the average at dawn is about 86 percent. The sun shines 68 percent of the time possible in summer and 47 percent in winter. The prevailing wind is from the southwest. Average windspeed is highest, around 9 miles per hour, from November to April.

How This Soil Survey Was Made

This survey was made to update and digitize the 1968 soil survey of Pulaski County (20). Major Land Resource Areas (MLRAs) are geographically associated land

Soil Survey of Pulaski County, Illinois

resource units that share a common land use, elevation, topography, climate, water, soils, and vegetation (9). Pulaski County is a subset of MLRA 134 (Southern Mississippi Valley Loess), MLRA 120A (Kentucky and Indiana Sandstone and Shale Hills and Valleys, Southern Part), and MLRA 131A (Southern Mississippi Valley Alluvium). See figure 1. Map unit design is based on each soil's occurrence throughout the MLRA. In some cases a soil component may be referred to that does not occur in the Pulaski County subset but that has been mapped within the MLRA.

This soil survey 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. During the 1968 soil survey and as part of this update, 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 soil parent materials. Soil scientists also studied and described soil profiles with the aid of a soil probe or spade. A soil profile is a sequence of natural layers, or horizons, and extends from the soil surface to the unconsolidated material at a depth of about 6 feet. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity. Soil scientists described new soil profile descriptions and studied profile descriptions from previous fieldwork.

The soils and miscellaneous areas in the county occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the county. Each kind of soil and miscellaneous area is associated with a particular kind 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 soil-landscape model, of how the soils were formed and the geographic distribution of the soils. Thus, during mapping, this model enables the soil scientists to predict with considerable accuracy the kind of soil or soils 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-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 and interpret 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 survey area generally are collected for laboratory analyses and for engineering tests. Field observations and measurements are also made on selected soils. Soil scientists interpret the data from these analyses and tests, as well as the field-observed characteristics and the soil properties, to estimate the expected behavior of the soils

Soil Survey of Pulaski County, Illinois

under different uses. Information from other soil surveys and soil studies are also used to develop soil interpretations.

Soils vary across the landscape and with time. Predictions about soil behavior are based not only on how soils occur on the landscape but also on such variables as climate, biological activity, and local land use. Some soil conditions are very stable and predictable over long periods of time. Examples are clay content in the subsoil and cation-exchange capacity. Some soil conditions change rapidly over the course of a year but are still predictable. Examples are monthly soil moisture status within certain depths of the soil profile and monthly depth and duration of ponding in a detailed soil map unit.

Interpretations for some of the soils are field tested through observation of the soils in different uses and under different levels of management. National and regional soil interpretations are modified as necessary to fit local conditions, and some new interpretations are developed to meet local needs. Map unit descriptions, interpretations, and tables for this soil survey were generated using the National Soil Survey Information System (NASIS), version 5.0.

Aerial photographs were taken in 1993. Soil scientists also used U.S. Geological Survey topographic maps enlarged to a scale of 1:12,000 and orthophotographs to relate land and image features. Selected areas of the county were reinvestigated to update and refine local soil-landscape models. Soil boundaries from the 1968 published soil maps were drawn on the orthophotographs. Adjustments of soil boundary lines were made to coincide with the U.S. Geological Survey topographic map contour lines, Digital Elevation Models (DEMs), and tonal patterns on aerial photographs.

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.

Detailed Soil Map Units

The map units on the detailed maps represent the soils or miscellaneous areas in the survey area. 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 given under the headings "Use and Management of the Soils" and "Soil Properties."

A map unit delineation on a map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils or miscellaneous areas. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils and miscellaneous areas are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to other taxonomic classes.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in the map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. The contrasting components are mentioned in the map unit descriptions. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor 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 landforms or landform segments that have similar use and management requirements. The delineation of such 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 precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives the principal hazards and limitations to be considered in planning for specific uses.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, 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, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown

on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Menfro silt loam, karst, 2 to 5 percent slopes, eroded, is a phase of the Menfro series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are undifferentiated groups or complexes.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas 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 soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded, is an undifferentiated group in this survey area.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Clarksville-Stookey complex, 35 to 70 percent slopes, is an example.

This survey includes *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Pits, quarries, is an example.

Table 4 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.

79B—Menfro silt loam, 2 to 5 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Summit and shoulder

Composition

Menfro soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.8 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Potential frost action: High

Corrosivity: Low for steel and moderate for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e
Prime farmland: All areas are prime farmland
Hydric soil: No

79C—Menfro silt loam, 5 to 10 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Shoulder and backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.8 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

79C2—Menfro silt loam, 5 to 10 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Shoulder and backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.7 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: High

Corrosivity: Low for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e

Prime farmland: Farmland of statewide importance

Hydric soil: No

79C3—Menfro silt loam, 5 to 10 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope and shoulder

Composition

Menfro soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.6 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

79D—Menfro silt loam, 10 to 18 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil
- Well drained Baxter soils in lower backslope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.8 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

79D2—Menfro silt loam, 10 to 18 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil
- Well drained Baxter soils in lower backslope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.7 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

79D3—Menfro silt loam, 10 to 18 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil
- Well drained Baxter soils in lower backslope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.6 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Moderate

Accelerated erosion: Surface layer is mostly subsoil material

Potential frost action: High

Corrosivity: Low for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

79E—Menfro silt loam, 18 to 25 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Somewhat excessively drained Clarksville soils and well drained Baxter soils on lower backslopes

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.8 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

79E2—Menfro silt loam, 18 to 25 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Somewhat excessively drained Clarksville soils and well drained Baxter soils on lower backslopes

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.7 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

79E3—Menfro silt loam, 18 to 25 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Somewhat excessively drained Clarksville soils and well drained Baxter soils on lower backslopes

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.6 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

79F—Menfro silt loam, 25 to 35 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Somewhat excessively drained Clarksville soils and well drained Baxter soils on lower backslopes

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.8 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Potential frost action: High

Corrosivity: Low for steel and moderate for concrete

Potential for surface runoff: High

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e

Prime farmland: Not prime farmland

Hydric soil: No

164A—Stoy silt loam, 0 to 2 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Summit

Composition

Stoy soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Stoy soil

Dissimilar inclusions:

- Moderately well drained Hosmer soils in shoulder and backslope positions
- Poorly drained Weir soils on summits

Soil Properties and Qualities

Parent material: Loess

Soil Survey of Pulaski County, Illinois

Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 10.0 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Perched; 1.0 foot; January to May
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w
Prime farmland: All areas are prime farmland
Hydric soil: No

164B—Stoy silt loam, 2 to 5 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Summit and shoulder

Composition

Stoy soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Stoy soil

Dissimilar inclusions:

- Moderately well drained Hosmer soils in shoulder and backslope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 10.0 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Perched; 1.0 foot; January to May
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e
Prime farmland: All areas are prime farmland
Hydric soil: No

165A—Weir silt loam, 0 to 2 percent slopes

Setting

Landform on landscape: Flat on upland
Position on landform: Summit

Composition

Weir soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Weir soil
- Soils that have darker surface horizons than the Weir soil

Dissimilar inclusions:

- Moderately well drained Hosmer soils in shoulder and backslope positions
- Somewhat poorly drained Stoy soils in shoulder and footslope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.1 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.5 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Perched; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w
Prime farmland: Farmland of statewide importance
Hydric soil: Yes

175B—Lamont fine sandy loam, 2 to 5 percent slopes

Setting

Landform on landscape: Dune in valley

Composition

Lamont soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Somewhat poorly drained Roby soils in lower areas
- Well drained Alvin and Landes soils in slope positions similar to those of the Lamont soil

Soil Properties and Qualities

Parent material: Eolian deposits

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderately rapid

Permeability below a depth of 60 inches: Rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 7.5 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Potential frost action: Moderate

Corrosivity: Low for steel and moderate for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 2e

Prime farmland: All areas are prime farmland

Hydric soil: No

214B—Hosmer silt loam, 2 to 5 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Shoulder and summit

Composition

Hosmer soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Hosmer soil
- Well developed fragipan soils that have a thinner loess cap than the Hosmer soil
- Soils that have a seasonal high water table at a depth of less than 1.5 feet

Dissimilar inclusions:

- Somewhat poorly drained Stoy soils in summit and shoulder slope positions
- Well drained Menfro and Alford soils in summit and shoulder slope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow to moderate
Depth to restrictive feature: 20 to 36 inches to a fragipan
Available water capacity: About 8.0 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April
Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e
Prime farmland: All areas are prime farmland
Hydric soil: No

214C—Hosmer silt loam, 5 to 10 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Shoulder and backslope

Composition

Hosmer soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Hosmer soil
- Well developed fragipan soils that have a thinner loess cap than the Hosmer soil
- Soils that have a seasonal high water table at a depth of less than 1.5 feet

Dissimilar inclusions:

- Somewhat poorly drained Stoy soils in summit and shoulder slope positions
- Well drained Menfro and Alford soils in backslope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow to moderate
Depth to restrictive feature: 20 to 36 inches to a fragipan
Available water capacity: About 8.0 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

214C2—Hosmer silt loam, 5 to 10 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope and shoulder

Composition

Hosmer soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Hosmer soil
- Well developed fragipan soils that have a thinner loess cap than the Hosmer soil
- Soils that have a seasonal high water table at a depth of less than 1.5 feet

Dissimilar inclusions:

- Somewhat poorly drained Stoy soils in summit and shoulder slope positions
- Well drained Menfro and Alford soils in shoulder and backslope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow to moderate
Depth to restrictive feature: 20 to 36 inches to a fragipan
Available water capacity: About 7.5 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

214C3—Hosmer silt loam, 5 to 10 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope and shoulder

Composition

Hosmer soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Hosmer soil
- Well developed fragipan soils that have a thinner loess cap than the Hosmer soil
- Soils that have a seasonal high water table at a depth of less than 1.5 feet

Dissimilar inclusions:

- Somewhat poorly drained Stoy soils in summit and shoulder slope positions
- Well drained Menfro and Alford soils in shoulder and backslope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow to moderate

Depth to restrictive feature: 20 to 36 inches to a fragipan

Available water capacity: About 7.2 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Accelerated erosion: Surface layer is mostly subsoil material

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

214D2—Hosmer silt loam, 10 to 18 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Hosmer soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker or thinner surface horizons than the Hosmer soil
- Well developed fragipan soils that have a thinner loess cap than the Hosmer soil
- Soils that have a seasonal high water table at a depth of less than 1.5 feet

Dissimilar inclusions:

- Somewhat poorly drained Stoy soils in summit and shoulder slope positions
- Well drained Menfro and Alford soils in backslope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow to moderate

Depth to restrictive feature: 20 to 36 inches to a fragipan

Available water capacity: About 7.5 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 2.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

214D3—Hosmer silt loam, 10 to 18 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Hosmer soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Hosmer soil
- Well developed fragipan soils that have a thinner loess cap than the Hosmer soil
- Soils that have a seasonal high water table at a depth of less than 1.5 feet

Dissimilar inclusions:

- Somewhat poorly drained Stoy soils in summit and shoulder slope positions
- Well drained Menfro and Alford soils in backslope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow to moderate

Depth to restrictive feature: 20 to 36 inches to a fragipan

Available water capacity: About 7.2 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Accelerated erosion: Surface layer is mostly subsoil material

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e

Prime farmland: Not prime farmland

Hydric soil: No

216D2—Stookey silt loam, 10 to 18 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Stookey soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thicker or thinner surface horizons than the Stookey soil
- Soils that have more clay in the subsoil than the Stookey soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Soils that have more than 35 percent rock fragments in the subsoil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.6 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Low
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

216E—Stookey silt loam, 18 to 25 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Stookey soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Stookey soil
- Soils that have more clay in the subsoil than the Stookey soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Soils that have more than 35 percent rock fragments in the subsoil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.7 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Low
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

216E2—Stookey silt loam, 18 to 25 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Stookey soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker or thinner surface horizons than the Stookey soil
- Soils that have more clay in the subsoil than the Stookey soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Soils that have more than 35 percent rock fragments in the subsoil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.6 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Low
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

216E3—Stookey silt loam, 18 to 25 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Stookey soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Stookey soil
- Soils that have more clay in the subsoil than the Stookey soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Soils that have more than 35 percent rock fragments in the subsoil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.5 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Accelerated erosion: Surface layer is mostly subsoil material

Potential frost action: High

Corrosivity: Low for steel and moderate for concrete

Potential for surface runoff: High

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e

Prime farmland: Not prime farmland

Hydric soil: No

216F—Stookey silt loam, 25 to 35 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Stookey soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Stookey soil
- Soils that have more clay in the subsoil than the Stookey soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Soils that have more than 35 percent rock fragments in the subsoil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Soil Survey of Pulaski County, Illinois

Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.7 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Low
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

216G—Stookey silt loam, 35 to 70 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Stookey soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Stookey soil
- Soils that have more clay in the subsoil than the Stookey soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Soils that have more than 35 percent rock fragments in the subsoil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.7 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Low
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 7e
Prime farmland: Not prime farmland
Hydric soil: No

308B—Alford silt loam, 2 to 5 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Summit and shoulder

Composition

Alford soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils, which have a fragipan; in positions similar to those of the Alford soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.2 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Moderate

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e

Prime farmland: All areas are prime farmland

Hydric soil: No

308C—Alford silt loam, 5 to 10 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope and shoulder

Composition

Alford soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Alford soil

Soil Survey of Pulaski County, Illinois

- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils, which have a fragipan; in positions similar to those of the Alford soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.2 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e

Prime farmland: Farmland of statewide importance

Hydric soil: No

308C2—Alford silt loam, 5 to 10 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope and shoulder

Composition

Alford soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils, which have a fragipan; in positions similar to those of the Alford soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.1 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

308C3—Alford silt loam, 5 to 10 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope and shoulder

Composition

Alford soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Moderately well drained Hosmer soils, which have a fragipan; in positions similar to those of the Alford soil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.1 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance
Hydric soil: No

308D—Alford silt loam, 10 to 18 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Alford soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas where sandstone, limestone, or material weathered from cherty limestone outcrops

Dissimilar inclusions:

- Moderately well drained Hosmer soils, which have a fragipan; in positions similar to those of the Alford soil
- Well drained Baxter soils in lower slope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.2 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

308D2—Alford silt loam, 10 to 18 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Alford soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas where sandstone, limestone, or material weathered from cherty limestone outcrops

Dissimilar inclusions:

- Moderately well drained Hosmer soils, which have a fragipan; in positions similar to those of the Alford soil
- Well drained Baxter soils in lower slope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.1 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

308D3—Alford silt loam, 10 to 18 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Alford soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Alford soil

Soil Survey of Pulaski County, Illinois

- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas where sandstone, limestone, or material weathered from cherty limestone outcrops

Dissimilar inclusions:

- Moderately well drained Hosmer soils, which have a fragipan; in positions similar to those of the Alford soil
- Well drained Baxter soils in lower slope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.1 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Moderate

Accelerated erosion: Surface layer is mostly subsoil material

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

308E—Alford silt loam, 18 to 25 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Alford soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas where sandstone, limestone, or material weathered from cherty limestone outcrops

Dissimilar inclusions:

- Well drained Baxter soils in lower slope positions

Soil Properties and Qualities

Parent material: Loess

Soil Survey of Pulaski County, Illinois

Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.2 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

308E2—Alford silt loam, 18 to 25 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Alford soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas where sandstone, limestone, or material weathered from cherty limestone outcrops

Dissimilar inclusions:

- Well drained Baxter soils in lower slope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.1 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

308E3—Alford silt loam, 18 to 25 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Alford soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas where sandstone, limestone, or material weathered from cherty limestone outcrops

Dissimilar inclusions:

- Well drained Baxter soils in lower slope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.1 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soil: No

308F—Alford silt loam, 25 to 35 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Alford soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Alford soil
- Soils that have less clay in the subsoil than the Alford soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas where sandstone, limestone, or material weathered from cherty limestone outcrops

Dissimilar inclusions:

- Well drained Baxter soils in lower slope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.2 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e

Prime farmland: Not prime farmland

Hydric soil: No

453C—Muren silt loam, 5 to 10 percent slopes

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope and shoulder

Composition

Muren soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Muren soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Muren soil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.4 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; 1.0 foot; January to April
Potential frost action: High
Corrosivity: High for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

453C3—Muren silt loam, 5 to 10 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Shoulder and backslope

Composition

Muren soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Muren soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Muren soil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.2 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; 1.0 foot; January to April

Accelerated erosion: Surface layer is mostly subsoil material

Potential frost action: High

Corrosivity: High for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

453D2—Muren silt loam, 10 to 18 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Muren soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Muren soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Muren soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.3 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; 1.0 foot; January to April

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: High

Corrosivity: High for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance
Hydric soil: No

453D3—Muren silt loam, 10 to 18 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Muren soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Muren soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Muren soil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.2 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; 1.0 foot; January to April
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High
Corrosivity: High for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Not prime farmland
Hydric soil: No

477B—Winfield silt loam, 2 to 5 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Shoulder and summit

Composition

Winfield soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Winfield soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Winfield soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.9 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; 2.0 feet; January to April

Potential frost action: High

Corrosivity: Moderate for steel and moderate for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Moderate

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e

Prime farmland: All areas are prime farmland

Hydric soil: No

477C2—Winfield silt loam, 5 to 10 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope and shoulder

Composition

Winfield soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Winfield soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Winfield soil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.8 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; 2.0 feet; January to April
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Moderate for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

477C3—Winfield silt loam, 5 to 10 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope and shoulder

Composition

Winfield soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Winfield soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Winfield soil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.7 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent

Soil Survey of Pulaski County, Illinois

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; 2.0 feet; January to April

Accelerated erosion: Surface layer is mostly subsoil material

Potential frost action: High

Corrosivity: Moderate for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Moderate

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

477D2—Winfield silt loam, 10 to 18 percent slopes, eroded

Setting

Landform on landscape: Loess hill on upland

Position on landform: Backslope

Composition

Winfield soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Winfield soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Winfield soil

Soil Properties and Qualities

Parent material: Loess

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.8 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; 2.0 feet; January to April

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: High

Corrosivity: Moderate for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

477D3—Winfield silt loam, 10 to 18 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Winfield soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Winfield soil
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Moderately well drained, very slowly permeable Hosmer soils in slope positions similar to those of the Winfield soil

Soil Properties and Qualities

Parent material: Loess
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.7 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; 2.0 feet; January to April
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High
Corrosivity: Moderate for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

694D2—Menfro-Baxter complex, 10 to 18 percent slopes, eroded

Setting

Landform on landscape: Hillslope on upland

Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 50 percent

Baxter soil and similar inclusions: 40 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Menfro and Baxter soils
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas that are shallower to cherty material than the Menfro and Baxter soils

Dissimilar inclusions:

- Well drained soils along narrow bottomlands

Properties and Qualities of the Menfro Soil

Parent material: Loess

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.7 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: High

Corrosivity: Low for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Properties and Qualities of the Baxter Soil

Parent material: Loess over cherty residuum

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: 60 to 120 inches to lithic bedrock

Available water capacity: About 7.7 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 4.0 percent

Shrink-swell potential: Moderate

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: None

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Not prime farmland
Hydric soils: No

694F—Menfro-Baxter complex, 18 to 35 percent slopes

Setting

Landform on landscape: Hillslope on upland
Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 55 percent
Baxter soil and similar inclusions: 35 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner surface horizons than the Menfro and Baxter soils
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas that are shallower to cherty material than the Menfro and Baxter soils

Dissimilar inclusions:

- Well drained soils along narrow bottomlands

Properties and Qualities of the Menfro Soil

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.8 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Properties and Qualities of the Baxter Soil

Parent material: Loess over cherty residuum
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: 60 to 120 inches to lithic bedrock
Available water capacity: About 7.9 inches to a depth of 60 inches
Organic matter content of surface layer: 2.0 to 4.0 percent
Shrink-swell potential: Moderate
Potential frost action: None
Corrosivity: High for steel and high for concrete
Potential for surface runoff: High

Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soils: No

717F—Stookey-Clarksville complex, 18 to 35 percent slopes

Setting

Landform on landscape: Loess hill on upland
Position on landform: Backslope

Composition

Stookey soil and similar inclusions: 50 percent
Clarksville soil and similar inclusions: 40 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have clayey residuum in the subsoil
- Soils that have thinner surface horizons than the Stookey and Clarksville soils
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Soils that have carbonates in the lower part of the soil profile

Dissimilar inclusions:

- Well drained Elsay and Haymond soils on narrow flood plains

Properties and Qualities of the Stookey Soil

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.7 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Low
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Properties and Qualities of the Clarksville Soil

Parent material: Colluvium over cherty residuum
Drainage class: Somewhat excessively drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 5.6 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent

Shrink-swell potential: Moderate
Potential frost action: Moderate
Corrosivity: Low for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Not applicable

Interpretive Groups

Land capability classification: 6e
Prime farmland: Not prime farmland
Hydric soils: No

717G—Clarksville-Stookey complex, 35 to 70 percent slopes

Setting

Landform on landscape: Hillslope on upland
Position on landform: Backslope

Composition

Clarksville soil and similar inclusions: 50 percent
Stookey soil and similar inclusions: 40 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have clayey residuum in the subsoil
- Soils that have thinner surface horizons than the Clarksville and Stookey soils
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Soils that have carbonates in the lower part of the soil profile

Dissimilar inclusions:

- Well drained Elsay and Haymond soils on narrow flood plains

Properties and Qualities of the Clarksville Soil

Parent material: Colluvium over cherty residuum
Drainage class: Somewhat excessively drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 5.6 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Potential frost action: Moderate
Corrosivity: Low for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Not applicable

Properties and Qualities of the Stookey Soil

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.7 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: Low
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 7e
Prime farmland: Not prime farmland
Hydric soils: No

801B—Orthents, silty, undulating

General Description

This map unit consists of areas where soil material has been excavated and redeposited during sand and gravel mining operations, road construction, dam building, or other activities requiring mass disturbance of earthy material. The slopes are generally 1 to 5 percent. Typically, the surface layer is silt loam or silty clay loam. The underlying material is commonly silty clay loam or silt loam and less commonly loam or clay loam. The soil properties and qualities listed below are average values. The values may be significantly different at any given site.

Setting

Landform on landscape: Cut (road, railroad, etc.), fill, borrow pit, and/or reclaimed land on uplands, terraces, and lake plains or flood plains

Composition

Orthents and similar inclusions: 100 percent

Inclusions

Similar inclusions:

- Soils that have a seasonal high water table within a depth of 6 feet

Soil Properties and Qualities

Parent material: Earthy fill
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderately slow
Permeability below a depth of 60 inches: Moderately slow or moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 10.0 inches to a depth of 60 inches
Organic matter content of surface layer: 0.0 to 1.0 percent
Shrink-swell potential: Moderate
Potential frost action: High
Corrosivity: High for steel and moderate for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e
Prime farmland: Not prime farmland
Hydric soils: No

802D—Orthents, loamy, hilly

General Description

This map unit consists of areas where soil material has been excavated from borrow areas and redeposited as a result of mining operations, road and levee construction, dam building, or other activities requiring mass disturbance of earthy material. Slopes generally range from 2 to 20 percent. Typically, the surface layer is loam, silt loam, or clay loam. The underlying material is commonly loam, silt loam, or very fine sandy loam and less commonly silty clay loam, clay loam, or sandy clay loam. The soil properties and qualities listed below are average values. The values may be significantly different at any given site.

Setting

Landform on landscape: Constructed levee, cut (road, railroad, etc.), fill, and/or borrow pit

Composition

Orthents and similar inclusions: 100 percent

Inclusions

Similar inclusions:

- Soils that have a seasonal high water table within a depth of 6 feet

Soil Properties and Qualities

Parent material: Earthy fill
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderately slow
Permeability below a depth of 60 inches: Moderately slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 10.9 inches to a depth of 60 inches
Organic matter content of surface layer: 0.1 to 1.0 percent
Shrink-swell potential: Moderate
Potential frost action: Moderate
Corrosivity: Moderate for steel and moderate for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Not prime farmland
Hydric soils: No

864—Pits, quarries

This map unit consists of open excavations from which limestone has been removed or is being removed.

This map unit is not assigned any interpretive groups.

865—Pits, gravel

This map unit consists of nearly level or gently sloping areas from which gravel has been extracted. The pits have nearly vertical sidewalls. Some pits are active, and others have been abandoned. Some contain water.

This map unit is not assigned any interpretive groups.

1843A—Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Bonnie soil and similar inclusions: 40 percent

Petrolia soil and similar inclusions: 40 percent

Dissimilar inclusions: 20 percent

Inclusions

Similar inclusions:

- Areas that are not ponded

Dissimilar inclusions:

- Somewhat poorly drained Belknap soils in the slightly higher positions of the flood plain

Properties and Qualities of the Bonnie Soil

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.6 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 1.0 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Negligible

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Properties and Qualities of the Petrolia Soil

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.6 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 3.0 percent

Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 1.0 foot
Flooding (frequency, months): Frequent; January to June
Potential frost action: High
Corrosivity: High for steel and low for concrete
Potential for surface runoff: Negligible
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 5w
Prime farmland: Not prime farmland
Hydric soils: Bonnie—no; Petrolia—yes

1845A—Darwin and Jacob silty clays, undrained, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Darwin soil and similar inclusions: 45 percent
Jacob soil and similar inclusions: 45 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are not ponded

Dissimilar inclusions:

- Somewhat poorly drained Bowdre soils on slight ridges

Properties and Qualities of the Darwin Soil

Parent material: Clayey alluvium
Drainage class: Very poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 7.9 inches to a depth of 60 inches
Organic matter content of surface layer: 4.0 to 5.0 percent
Shrink-swell potential: Very high
Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 1.0 foot
Flooding (frequency, months): Frequent; January to June
Potential frost action: Moderate
Corrosivity: High for steel and low for concrete
Potential for surface runoff: Negligible
Water erosion susceptibility: Low
Wind erosion susceptibility: Moderate

Properties and Qualities of the Jacob Soil

Parent material: Clayey alluvium
Drainage class: Very poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 7.2 inches to a depth of 60 inches
Organic matter content of surface layer: 2.0 to 4.0 percent
Shrink-swell potential: Very high
Highest seasonal high water table (kind, depth, months): Perched; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 1.0 foot
Flooding (frequency, months): Frequent; January to June
Potential frost action: Moderate
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Negligible
Water erosion susceptibility: Low
Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 5w
Prime farmland: Not prime farmland
Hydric soils: Yes

1846A—Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Karnak soil and similar inclusions: 55 percent
Cape soil and similar inclusions: 35 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas of short steep slopes
- Overflow channels where silty overwash is evident
- Areas that are not ponded

Dissimilar inclusions:

- Soils on slight rises that are coarser textured and better drained than the Karnak and Cape soils
- Recently flooded and scoured areas that have sandy deposits

Properties and Qualities of the Karnak Soil

Parent material: Clayey alluvium
Drainage class: Very poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Slow

Soil Survey of Pulaski County, Illinois

Depth to restrictive feature: More than 80 inches
Available water capacity: About 7.0 inches to a depth of 60 inches
Organic matter content of surface layer: 2.0 to 3.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 1.0 foot
Flooding (frequency, months): Frequent; January to June
Potential frost action: High
Corrosivity: High for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Properties and Qualities of the Cape Soil

Parent material: Clayey alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 8.3 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 3.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 1.0 foot
Flooding (frequency, months): Frequent; January to June
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 5w
Prime farmland: Not prime farmland
Hydric soils: Yes

3070A—Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Beaucoup soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Soil Survey of Pulaski County, Illinois

Dissimilar inclusions:

- Well drained Armiesburg soils in higher-lying areas
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.3 inches to a depth of 60 inches

Organic matter content of surface layer: 5.0 to 6.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: Negligible

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Hydric soil: Yes

3070L—Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Beaucoup soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations
- Soils that have a seasonal high water table at a depth of more than 3.5 feet

Dissimilar inclusions:

- Well drained Armiesburg soils in the higher-lying areas
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Soil Survey of Pulaski County, Illinois

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.3 inches to a depth of 60 inches

Organic matter content of surface layer: 5.0 to 6.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: Negligible

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

3071A—Darwin silty clay, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Darwin soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded

Dissimilar inclusions:

- Somewhat poorly drained Bowdre soils on slight ridges

Soil Properties and Qualities

Parent material: Clayey alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 7.9 inches to a depth of 60 inches

Organic matter content of surface layer: 4.0 to 5.0 percent

Shrink-swell potential: Very high

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: Moderate

Corrosivity: High for steel and low for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low
Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 4w
Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
Hydric soil: Yes

3072A—Sharon silt loam, 0 to 3 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Sharon soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas where thin layers of sandy, gravelly, or stony material occur
- Areas that are rarely flooded or frequently flooded

Dissimilar inclusions:

- Recently flooded and scoured areas that have sandy deposits
- Somewhat poorly drained Belknap soils in shallow depressions

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.0 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 3.0 percent
Shrink-swell potential: Low
Highest seasonal high water table (kind, depth, months): Apparent; 3.0 feet; January to April
Flooding (frequency, months): Frequent; January to May
Potential frost action: High
Corrosivity: Low for steel and high for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w
Prime farmland: Prime farmland if protected from flooding or not frequently flooded during the growing season
Hydric soil: No

3108A—Bonnie silt loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Bonnie soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded

Dissimilar inclusions:

- Somewhat poorly drained Belknap soils in the slightly higher positions of the flood plain

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.6 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Hydric soil: Yes

3162L—Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Gorham soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas where the surface layer is loamy
- Areas that are occasionally flooded

Dissimilar inclusions:

- Moderately well drained Medway soils on slight rises
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately rapid or rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 9.3 inches to a depth of 60 inches

Organic matter content of surface layer: 4.0 to 5.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: Negligible

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

3180A—Dupo silt loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Dupo soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas that are flooded for shorter duration than the Dupo soil

Dissimilar inclusions:

- Somewhat poorly drained Wakeland soils in slightly higher areas
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Silty alluvium over clayey alluvium
Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: 20 to 40 inches to abrupt textural change
Available water capacity: About 10.3 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Perched; 0.5 foot; January to May
Flooding (frequency, months): Frequent; January to June
Potential frost action: High
Corrosivity: High for steel and moderate for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w
Prime farmland: Prime farmland if protected from flooding or not frequently flooded during the growing season
Hydric soil: No

3284A—Tice silty clay loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Tice soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations
- Areas with loamy overwash

Dissimilar inclusions:

- Moderately well drained Medway soils on slight rises
- Recently flooded and scoured areas that have sandy deposits
- Poorly drained Beaucoup soils on toeslopes
- Poorly drained Gorham soils on toeslopes

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.3 inches to a depth of 60 inches

Soil Survey of Pulaski County, Illinois

Organic matter content of surface layer: 2.0 to 3.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; 0.5 foot; January to May

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: High

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if protected from flooding or not frequently flooded during the growing season

Hydric soil: No

3284L—Tice silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Tice soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations
- Areas with loamy overwash

Dissimilar inclusions:

- Moderately well drained Medway soils on slight rises
- Recently flooded and scoured areas that have sandy deposits
- Poorly drained Darwin soils on toeslopes

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.3 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 3.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; 0.5 foot; January to May

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: High

Soil Survey of Pulaski County, Illinois

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

**3288A—Petrolia silty clay loam, 0 to 2 percent slopes,
frequently flooded**

Setting

Landform on landscape: Flood plain in valley

Composition

Petrolia soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that have received silty overwash
- Areas that are occasionally flooded and/or flooded for shorter durations than the Petrolia soil

Dissimilar inclusions:

- Depressional areas of poorly drained and very poorly drained Jacob and Karnak soils
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.6 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 3.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Hydric soil: Yes

3288L—Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Petrolia soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that have received silty overwash
- Areas that are occasionally flooded and/or flooded for shorter durations than the Petrolia soil

Dissimilar inclusions:

- Depressional areas of poorly drained and very poorly drained Jacob and Karnak soils
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.6 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 3.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

3331A—Haymond silt loam, 0 to 3 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Haymond soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded

Dissimilar inclusions:

- Moderately well drained Burnside soils and somewhat excessively drained Elsayh soils on narrow flood plains
- Somewhat poorly drained Wakeland soils in slightly depressional areas

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 13.2 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Flooding (frequency, months): Frequent; January to May

Potential frost action: High

Corrosivity: Low for steel and low for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w

Prime farmland: Prime farmland if protected from flooding or not frequently flooded during the growing season

Hydric soil: No

3331L—Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Haymond soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations

Dissimilar inclusions:

- Moderately well drained Burnside soils and somewhat excessively drained Elsayh soils on narrow flood plains

Soil Survey of Pulaski County, Illinois

- Somewhat poorly drained Wakeland soils in slightly depressional areas
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 13.2 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: Low for steel and low for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

3333A—Wakeland silt loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Wakeland soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded

Dissimilar inclusions:

- Well drained Haymond soils on slight rises
- Recently flooded and scoured areas that have sandy deposits
- Poorly drained Birds soils in slight depressions

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.7 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Soil Survey of Pulaski County, Illinois

Highest seasonal high water table (kind, depth, months): Apparent; 0.5 foot; January to May

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: High

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w

Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Hydric soil: No

3333L—Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Wakeland soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations

Dissimilar inclusions:

- Well drained Haymond soils on slight rises
- Recently flooded and scoured areas that have sandy deposits
- Poorly drained Birds soils in slight depressions

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.7 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; 0.5 foot; January to May

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: High

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 5w
Prime farmland: Not prime farmland
Hydric soil: Yes

3334A—Birds silt loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Birds soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas that contain more clay in the soil profile than the Birds soil

Dissimilar inclusions:

- Somewhat poorly drained Wakeland soils in the slightly higher areas of the flood plain
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 13.0 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and moderate for concrete

Potential for surface runoff: Negligible

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Hydric soil: Yes

3334L—Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Birds soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations
- Areas that contain more clay in the profile than the Birds soil

Dissimilar inclusions:

- Somewhat poorly drained Wakeland soils in the slightly higher areas of the flood plain
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 13.0 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; at the surface; January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and moderate for concrete

Potential for surface runoff: Negligible

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

3382A—Belknap silt loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Belknap soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have a seasonal high water table at a depth of more than 2.0 feet
- Soils that are moderately acid to slightly alkaline

Dissimilar inclusions:

- Moderately well drained Sharon soils in the slightly higher areas of the flood plain
- Poorly drained Bonnie soils on toeslopes
- Poorly drained Piopolis soils on toeslopes

Soil Properties and Qualities

Parent material: Silty alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow or moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.5 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; 0.5 foot; January to May

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Hydric soil: No

3420A—Piopolis silty clay loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Piopolis soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas that have silty overwash

Soil Survey of Pulaski County, Illinois

Dissimilar inclusions:

- Soils that are not ponded and are better drained than the Piopolis soil
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Slow

Permeability below a depth of 60 inches: Slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.6 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Hydric soil: Yes

3422A—Cape silty clay loam, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Cape soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas of short steep slopes

Dissimilar inclusions:

- Soils on slight rises that are coarser textured and better drained than the Cape soil
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Clayey alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow

Soil Survey of Pulaski County, Illinois

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.3 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Hydric soil: Yes

3422A+—Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Cape soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or occasionally flooded
- Areas with thin or no overwash
- Areas of short steep slopes

Dissimilar inclusions:

- Soils on slight rises that are coarser textured and better drained than the Cape soil
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Silty alluvium over clayey alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 9.4 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w
Prime farmland: Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
Hydric soil: Yes

3426A—Karnak silty clay, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Karnak soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Overflow channels where silty overwash is evident
- Areas that are occasionally flooded and/or flooded for shorter durations than the Karnak soil

Dissimilar inclusions:

- Soils that are more acid than the Karnak soil
- Soils on slight rises that are coarser textured and better drained than the Karnak soil
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Clayey alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 7.0 inches to a depth of 60 inches
Organic matter content of surface layer: 2.0 to 3.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; at the surface; January to June
Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot
Flooding (frequency, months): Frequent; January to June
Potential frost action: High
Corrosivity: High for steel and moderate for concrete
Potential for surface runoff: Low

Water erosion susceptibility: Low
Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 3w
Prime farmland: Farmland of statewide importance
Hydric soil: Yes

3426A+—Karnak silt loam, overwash, 0 to 2 percent slopes, frequently flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Karnak soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas where little or no silty overwash is evident
- Areas that are occasionally flooded and/or flooded for shorter durations than the Karnak soil

Dissimilar inclusions:

- Soils that are more acid than the Karnak soil
- Soils on slight rises that are coarser textured and better drained than the Karnak soil

Soil Properties and Qualities

Parent material: Silty alluvium over clayey alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow or slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 8.2 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 3.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; at the surface; January to June
Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot
Flooding (frequency, months): Frequent; January to June
Potential frost action: High
Corrosivity: High for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w
Prime farmland: Farmland of statewide importance
Hydric soil: Yes

3426L—Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Karnak soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Overflow channels where silty overwash is evident
- Areas that are occasionally flooded and/or flooded for shorter durations than the Karnak soil

Dissimilar inclusions:

- Soils that are more acid than the Karnak soil
- Soils on slight rises that are coarser textured and better drained than the Karnak soil
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Clayey alluvium

Drainage class: Very poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 7.0 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 3.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Frequent; January to June

Potential frost action: High

Corrosivity: High for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

3449L—Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Armiesburg soil and similar inclusions: 45 percent
Sarpy soil and similar inclusions: 35 percent
Dissimilar inclusions: 20 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Recently flooded and scoured areas that have sandy deposits

Dissimilar inclusions:

- Well drained Ware soils in slope positions similar to those of the Armiesburg and Sarpy soils
- Moderately well drained Medway soils in slope positions similar to those of the Armiesburg and Sarpy soils

Properties and Qualities of the Armiesburg Soil

Parent material: Alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.8 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 4.0 percent

Shrink-swell potential: Moderate

Flooding (frequency, months): Frequent; January to May

Potential frost action: High

Corrosivity: Moderate for steel and low for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Properties and Qualities of the Sarpy Soil

Parent material: Sandy alluvium

Drainage class: Excessively drained

Slowest permeability within a depth of 40 inches: Rapid

Permeability below a depth of 60 inches: Rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 4.2 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Flooding (frequency, months): Frequent; January to May

Potential frost action: Low

Corrosivity: Low for steel and low for concrete

Potential for surface runoff: Negligible

Water erosion susceptibility: Low

Wind erosion susceptibility: High

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soils: Yes

3456BL—Ware loam, 1 to 6 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Ware soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations
- Areas that are sandy and areas where slopes are short and steep

Dissimilar inclusions:

- Moderately well drained Medway soils on low ridges and natural levees along sloughs or overflow channels of flood plains
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderately rapid or rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.9 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 3.0 percent

Shrink-swell potential: Low

Flooding (frequency, months): Frequent; January to May

Potential frost action: Moderate

Corrosivity: Low for steel and low for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

3597L—Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration

Setting

Landform on landscape: Flood plain in valley

Composition

Armiesburg soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Poorly drained Beaucoup soils in lower-lying or depressional areas
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.8 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 4.0 percent

Shrink-swell potential: Moderate

Flooding (frequency, months): Frequent; January to May

Potential frost action: High

Corrosivity: Moderate for steel and low for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 5w

Prime farmland: Not prime farmland

Hydric soil: Yes

5079B2—Menfro silt loam, karst, 2 to 5 percent slopes, eroded

Setting

Landform on landscape: Loess hill on karst

Position on landform: Summit and shoulder

Composition

Menfro soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Non-karst areas

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil
- Somewhat poorly drained Wakeland soils in footslope and toeslope positions

Soil Properties and Qualities

Parent material: Loess

Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.7 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e
Prime farmland: All areas are prime farmland
Hydric soil: No

5079C3—Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on karst
Position on landform: Backslope, summit, and shoulder

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Non-karst areas

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil
- Somewhat poorly drained Wakeland soils in footslope and toeslope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.6 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High

Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

5079D3—Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded

Setting

Landform on landscape: Loess hill on karst
Position on landform: Backslope

Composition

Menfro soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Soils that have thicker surface horizons than the Menfro soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Non-karst areas

Dissimilar inclusions:

- Moderately well drained Hosmer soils in positions similar to those of the Menfro soil
- Somewhat poorly drained Wakeland soils in footslope and toeslope positions
- Well drained Baxter soils in lower backslope positions

Soil Properties and Qualities

Parent material: Loess
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.6 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Moderate
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Not prime farmland
Hydric soil: No

7084A—Okaw silt loam, 0 to 2 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Composition

Okaw soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas that have a seasonal high water table at a depth of more than 2 feet

Dissimilar inclusions:

- Somewhat poorly drained Hurst soils in slightly higher positions

Soil Properties and Qualities

Parent material: Lacustrine deposits

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow

Depth to restrictive feature: 10 to 20 inches to abrupt textural change

Available water capacity: About 9.4 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Rare; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Farmland of statewide importance

Hydric soil: Yes

7122B—Colp silt loam, 2 to 5 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace on lake plain

Position on landform: Summit and shoulder

Composition

Colp soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have thinner surface horizons than the Colp soil

Dissimilar inclusions:

- Somewhat poorly drained Hurst soils in less sloping areas

Soil Properties and Qualities

Parent material: Thin loess over clayey lacustrine deposits

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Slow

Permeability below a depth of 60 inches: Slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 9.4 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 2.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; 2.0 feet; January to April

Flooding (frequency, months): Rare; January to April

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Moderate

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e

Prime farmland: All areas are prime farmland

Hydric soil: No

7122C2—Colp silt loam, 5 to 10 percent slopes, eroded, rarely flooded

Setting

Landform on landscape: Terrace on lake plain

Position on landform: Backslope

Composition

Colp soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

Areas that are occasionally flooded

Soils that have thinner or thicker surface horizons than the Colp soil

Dissimilar inclusions:

- Somewhat poorly drained Hurst soils in less sloping areas

Soil Properties and Qualities

Parent material: Thin loess over clayey lacustrine deposits

Drainage class: Moderately well drained

Soil Survey of Pulaski County, Illinois

Slowest permeability within a depth of 40 inches: Slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 9.1 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; 2.0 feet; January to April
Flooding (frequency, months): Rare; January to April
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

7122D2—Colp silt loam, 10 to 18 percent slopes, eroded, rarely flooded

Setting

Landform on landscape: Terrace on lake plain
Position on landform: Backslope

Composition

Colp soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have thinner or thicker surface horizons than the Colp soil

Dissimilar inclusions:

- Somewhat poorly drained Hurst soils in less sloping areas

Soil Properties and Qualities

Parent material: Thin loess over clayey lacustrine deposits
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 9.1 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; 2.0 feet; January to April
Flooding (frequency, months): Rare; January to April
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: High

Corrosivity: High for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

7131A—Alvin fine sandy loam, 0 to 2 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley
Position on landform: Summit

Composition

Alvin soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Alvin soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas that are occasionally flooded

Dissimilar inclusions:

- Well drained Lamont and Wheeling soils in slope positions similar to those of the Alvin soil
- Somewhat poorly drained Roby soils in less sloping areas

Soil Properties and Qualities

Parent material: Sandy alluvium
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderately rapid
Permeability below a depth of 60 inches: Moderately rapid
Depth to restrictive feature: More than 80 inches
Available water capacity: About 7.6 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Low
Flooding (frequency, months): Rare; January to April
Potential frost action: Moderate
Corrosivity: Low for steel and high for concrete
Potential for surface runoff: Very low
Water erosion susceptibility: Low
Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 2s
Prime farmland: All areas are prime farmland
Hydric soil: No

7131B—Alvin fine sandy loam, 2 to 5 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Shoulder and summit

Composition

Alvin soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Alvin soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas that are occasionally flooded

Dissimilar inclusions:

- Well drained Lamont and Wheeling soils in slope positions similar to those of the Alvin soil
- Somewhat poorly drained Roby soils in less sloping areas

Soil Properties and Qualities

Parent material: Sandy alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderately rapid

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 7.6 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Flooding (frequency, months): Rare; January to April

Potential frost action: Moderate

Corrosivity: Low for steel and high for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 2e

Prime farmland: All areas are prime farmland

Hydric soil: No

7131C—Alvin fine sandy loam, 5 to 10 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Summit and shoulder

Composition

Alvin soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Alvin soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas that are occasionally flooded

Dissimilar inclusions:

- Well drained Lamont and Wheeling soils in slope positions similar to those of the Alvin soil
- Somewhat poorly drained Roby soils in the less sloping areas

Soil Properties and Qualities

Parent material: Sandy alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderately rapid

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 7.6 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Flooding (frequency, months): Rare; January to April

Potential frost action: Moderate

Corrosivity: Low for steel and high for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Moderate

Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 3e

Prime farmland: All areas are prime farmland

Hydric soil: No

7131C2—Alvin fine sandy loam, 5 to 10 percent slopes, eroded, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Shoulder and summit

Composition

Alvin soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Alvin soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas that are occasionally flooded

Soil Survey of Pulaski County, Illinois

Dissimilar inclusions:

- Well drained Lamont and Wheeling soils in slope positions similar to those of the Alvin soil
- Somewhat poorly drained Roby soils in less sloping areas

Soil Properties and Qualities

Parent material: Sandy alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderately rapid

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 7.4 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Flooding (frequency, months): Rare; January to April

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: Moderate

Corrosivity: Low for steel and high for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Moderate

Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 3e

Prime farmland: All areas are prime farmland

Hydric soil: No

7131D2—Alvin fine sandy loam, 10 to 18 percent slopes, eroded, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Backslope

Composition

Alvin soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Alvin soil
- Soils that have a seasonal high water table at a depth of less than 3.5 feet
- Areas that are occasionally flooded

Dissimilar inclusions:

- Well drained Lamont and Wheeling soils in less sloping positions
- Somewhat poorly drained Roby soils in less sloping areas

Soil Properties and Qualities

Parent material: Sandy alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderately rapid

Permeability below a depth of 60 inches: Moderately rapid

Soil Survey of Pulaski County, Illinois

Depth to restrictive feature: More than 80 inches
Available water capacity: About 7.4 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Low
Flooding (frequency, months): Rare; January to April
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: Moderate
Corrosivity: Low for steel and high for concrete
Potential for surface runoff: Low
Water erosion susceptibility: High
Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

7338A—Hurst silt loam, 0 to 2 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley
Position on landform: Summit

Composition

Hurst soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have a seasonal high water table at a depth of more than 3.5 feet
- Soils that have calcareous subsoils
- Soils that have stratified coarser subsoil material

Dissimilar inclusions:

- Moderately well drained Colp soils in more sloping areas
- Poorly drained Okaw soils on footslopes

Soil Properties and Qualities

Parent material: Lacustrine deposits
Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 9.3 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; 1.0 foot; January to May
Flooding (frequency, months): Rare; January to May
Potential frost action: Moderate
Corrosivity: High for steel and high for concrete

Potential for surface runoff: High
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w
Prime farmland: Farmland of statewide importance
Hydric soil: No

7338B—Hurst silt loam, 2 to 5 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley
Position on landform: Shoulder and summit

Composition

Hurst soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have a seasonal high water table at a depth of more than 3.5 feet
- Soils that have calcareous subsoils
- Soils that have stratified coarser subsoil material

Dissimilar inclusions:

- Moderately well drained Colp soils in more sloping areas

Soil Properties and Qualities

Parent material: Lacustrine deposits
Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 9.3 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; 1.0 foot; January to May
Flooding (frequency, months): Rare; January to May
Potential frost action: Moderate
Corrosivity: High for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w
Prime farmland: Farmland of statewide importance
Hydric soil: No

7401A—Okaw silty clay loam, 0 to 2 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Summit

Composition

Okaw soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

Areas that are occasionally flooded

Areas that have a seasonal high water table at a depth of more than 2 feet

Dissimilar inclusions:

- Somewhat poorly drained Hurst soils in slightly higher positions

Soil Properties and Qualities

Parent material: Lacustrine deposits

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow

Depth to restrictive feature: 10 to 20 inches to abrupt textural change

Available water capacity: About 9.6 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Rare; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: Low

Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Farmland of statewide importance

Hydric soil: Yes

7460A—Ginat silt loam, 0 to 2 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Summit

Composition

Ginat soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas where the surface layer is loam or very fine sandy loam

Dissimilar inclusions:

- Somewhat poorly drained Roby soils in slope positions similar to those of the Ginat soil

Soil Properties and Qualities

Parent material: Silty alluvium over clayey alluvium and/or loamy alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 9.1 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Perched; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Rare; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained

Hydric soil: Yes

7462A—Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Composition

Sciotoville soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have thinner surface horizons than the Sciotoville soil
- Areas where the subsoil is loam

Soil Survey of Pulaski County, Illinois

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Sciotoville soil
- Poorly drained Ginat soils on footslopes

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Slow

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.9 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Flooding (frequency, months): Rare; January to April

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w

Prime farmland: All areas are prime farmland

Hydric soil: No

7462B—Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Summit and shoulder

Composition

Sciotoville soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have thinner surface horizons than the Sciotoville soil
- Areas where the subsoil is loam

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Sciotoville soil

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Slow

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Soil Survey of Pulaski County, Illinois

Available water capacity: About 8.9 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Flooding (frequency, months): Rare; January to April

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Moderate

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e

Prime farmland: All areas are prime farmland

Hydric soil: No

7462C2—Sciotoville silt loam, 5 to 10 percent slopes, eroded, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Backslope

Composition

Sciotoville soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have thinner or thicker surface horizons than the Sciotoville soil
- Areas where the subsoil is loam

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Sciotoville soil

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Slow

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.7 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Flooding (frequency, months): Rare; January to April

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

7462C3—Sciotoville silt loam, 5 to 10 percent slopes, severely eroded, rarely flooded

Setting

Landform on landscape: Terrace in valley
Position on landform: Backslope

Composition

Sciotoville soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have thicker surface horizons than the Sciotoville soil
- Areas where the subsoil is loam

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Sciotoville soil

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Slow
Permeability below a depth of 60 inches: Moderately rapid
Depth to restrictive feature: More than 80 inches
Available water capacity: About 8.5 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Low
Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April
Flooding (frequency, months): Rare; January to April
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: High
Corrosivity: Moderate for steel and high for concrete
Potential for surface runoff: High
Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

7462D2—Sciotoville silt loam, 10 to 18 percent slopes, eroded, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Backslope

Composition

Sciotoville soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have thinner or thicker surface horizons than the Sciotoville soil
- Areas where the subsoil is loam

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Sciotoville soil

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Slow

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.7 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Flooding (frequency, months): Rare; January to April

Accelerated erosion: Surface layer has been thinned by erosion

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

7462D3—Sciotoville silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Backslope

Composition

Sciotoville soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Soils that have thicker surface horizons than the Sciotoville soil
- Areas where the subsoil is loam

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Sciotoville soil

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Moderately well drained

Slowest permeability within a depth of 40 inches: Slow

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.5 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Perched; 1.5 feet; January to April

Flooding (frequency, months): Rare; January to April

Accelerated erosion: Surface layer is mostly subsoil material

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: High

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e

Prime farmland: Farmland of statewide importance

Hydric soil: No

7463A—Wheeling silt loam, 0 to 2 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Summit

Composition

Wheeling soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas that are sandy
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Soil Survey of Pulaski County, Illinois

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Wheeling soil
- Poorly drained Ginat soils on footslopes

Soil Properties and Qualities

Parent material: Loamy alluvium and/or silty alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 6.8 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Flooding (frequency, months): Rare; January to May

Potential frost action: Moderate

Corrosivity: Low for steel and moderate for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2s

Prime farmland: All areas are prime farmland

Hydric soil: No

7463B—Wheeling silt loam, 2 to 5 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Summit and shoulder

Composition

Wheeling soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas that have thinner surface horizons than the Wheeling soil
- Areas that are sandy
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Wheeling soil

Soil Properties and Qualities

Parent material: Loamy alluvium and/or silty alluvium

Drainage class: Well drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Rapid

Soil Survey of Pulaski County, Illinois

Depth to restrictive feature: More than 80 inches
Available water capacity: About 6.8 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 3.0 percent
Shrink-swell potential: Low
Flooding (frequency, months): Rare; January to May
Potential frost action: Moderate
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e
Prime farmland: All areas are prime farmland
Hydric soil: No

7463C2—Wheeling silt loam, 5 to 10 percent slopes, eroded, rarely flooded

Setting

Landform on landscape: Terrace in valley
Position on landform: Backslope

Composition

Wheeling soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas that have thinner or thicker surface horizons than the Wheeling soil
- Areas that are sandy
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Wheeling soil

Soil Properties and Qualities

Parent material: Loamy alluvium and/or silty alluvium
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Rapid
Depth to restrictive feature: More than 80 inches
Available water capacity: About 6.6 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 3.0 percent
Shrink-swell potential: Low
Flooding (frequency, months): Rare; January to May
Accelerated erosion: Surface layer has been thinned by erosion
Potential frost action: Moderate
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium

Water erosion susceptibility: Moderate
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3e
Prime farmland: Farmland of statewide importance
Hydric soil: No

7463D3—Wheeling silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded

Setting

Landform on landscape: Terrace in valley
Position on landform: Backslope

Composition

Wheeling soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded
- Areas that have thicker surface horizons than the Wheeling soil
- Areas that are sandy
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Well drained Alvin soils in slope positions similar to those of the Wheeling soil

Soil Properties and Qualities

Parent material: Loamy alluvium and/or silty alluvium
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Rapid
Depth to restrictive feature: More than 80 inches
Available water capacity: About 6.4 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 1.0 percent
Shrink-swell potential: Low
Flooding (frequency, months): Rare; January to May
Accelerated erosion: Surface layer is mostly subsoil material
Potential frost action: Moderate
Corrosivity: Low for steel and moderate for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: High
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 4e
Prime farmland: Farmland of statewide importance
Hydric soil: No

7711A—Hatfield silt loam, 0 to 2 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Summit

Composition

Hatfield soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Hatfield soil

Dissimilar inclusions:

- Somewhat poorly drained Roby soils in slope positions similar to those of the Hatfield soil
- Poorly drained Ginat soils on footslopes

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 10.7 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Perched; 0.5 foot; January to May

Flooding (frequency, months): Rare; January to May

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w

Prime farmland: Prime farmland if drained

Hydric soil: No

7711B—Hatfield silt loam, 2 to 5 percent slopes, rarely flooded

Setting

Landform on landscape: Terrace in valley

Position on landform: Summit and shoulder

Composition

Hatfield soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Soils that have thinner or thicker surface horizons than the Hatfield soil

Dissimilar inclusions:

- Somewhat poorly drained Roby soils in slope positions similar to those of the Hatfield soil

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 10.7 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Perched; 0.5 foot; January to May

Flooding (frequency, months): Rare; January to May

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: Moderate

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2e

Prime farmland: Prime farmland if drained

Hydric soil: No

8070A—Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Beaucoup soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Soils that have a seasonal high water table at a depth of more than 1.0 foot

Dissimilar inclusions:

- Well drained Armiesburg soils in higher-lying areas

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.3 inches to a depth of 60 inches
Organic matter content of surface layer: 5.0 to 6.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and low for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 2w
Prime farmland: Prime farmland if drained
Hydric soil: Yes

8071A—Darwin silty clay, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Darwin soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas that have sandy or silty overwash on the surface

Dissimilar inclusions:

- Somewhat poorly drained Bowdre soils on slight ridges

Soil Properties and Qualities

Parent material: Clayey alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 7.9 inches to a depth of 60 inches
Organic matter content of surface layer: 4.0 to 5.0 percent
Shrink-swell potential: Very high

Soil Survey of Pulaski County, Illinois

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot
Flooding (frequency, months): Occasional; January to June
Potential frost action: Moderate
Corrosivity: High for steel and low for concrete
Potential for surface runoff: High
Water erosion susceptibility: Low
Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 3w
Prime farmland: Prime farmland if drained
Hydric soil: Yes

**8072A—Sharon silt loam, 0 to 3 percent slopes,
occasionally flooded**

Setting

Landform on landscape: Flood plain in valley

Composition

Sharon soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas where thin layers of sandy, gravelly, or stony material occur
- Areas that are rarely flooded or frequently flooded

Dissimilar inclusions:

- Somewhat poorly drained Belknap soils in shallow depressions

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Moderately well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.0 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 3.0 percent
Shrink-swell potential: Low
Highest seasonal high water table (kind, depth, months): Apparent; 3.0 feet; January to
April
Flooding (frequency, months): Occasional; January to May
Potential frost action: High
Corrosivity: Low for steel and high for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w

Prime farmland: All areas are prime farmland
Hydric soil: No

8085A—Jacob silty clay, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Jacob soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded

Dissimilar inclusions:

- Somewhat poorly drained Bowdre soils, which have less clay than the Jacob soil; on slight ridges

Soil Properties and Qualities

Parent material: Clayey alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 7.2 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 4.0 percent

Shrink-swell potential: Very high

Highest seasonal high water table (kind, depth, months): Perched; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Occasional; January to June

Potential frost action: Moderate

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 4w

Prime farmland: Farmland of statewide importance

Hydric soil: Yes

8108A—Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Bonnie soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded

Dissimilar inclusions:

- Somewhat poorly drained Belknap soils in the slightly higher positions of the flood plain

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.6 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained

Hydric soil: Yes

8109A—Raccoon silt loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Fan on upland

Position on landform: Footslope

Composition

Raccoon soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas where the surface layer is loam or very fine sandy loam

Dissimilar inclusions:

- Well drained Alvin soils in higher slope positions

Soil Properties and Qualities

Parent material: Loess over silty alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 11.8 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 2.5 percent

Shrink-swell potential: Moderate

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained

Hydric soil: Yes

**8162A—Gorham silty clay loam, 0 to 2 percent slopes,
occasionally flooded**

Setting

Landform on landscape: Flood plain in valley

Composition

Gorham soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas where the surface layer is loamy
- Areas that are rarely flooded or frequently flooded

Dissimilar inclusions:

- Moderately well drained Medway soils on slight rises

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately rapid or rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 9.3 inches to a depth of 60 inches

Organic matter content of surface layer: 4.0 to 5.0 percent

Soil Survey of Pulaski County, Illinois

Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and low for concrete
Potential for surface runoff: Very low
Water erosion susceptibility: Low
Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 3w
Prime farmland: Prime farmland if drained
Hydric soil: Yes

8178A—Ruark fine sandy loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Terrace on outwash plain
Position on landform: Footslope

Composition

Ruark soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas that have a dark colored surface layer

Dissimilar inclusions:

- Well drained Alvin soils in higher slope positions

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Moderately slow
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 9.5 inches to a depth of 60 inches
Organic matter content of surface layer: 0.5 to 2.0 percent
Shrink-swell potential: Low
Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Low

Water erosion susceptibility: Low
Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 3w
Prime farmland: Prime farmland if drained
Hydric soil: Yes

8180A—Dupo silt loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Dupo soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded

Dissimilar inclusions:

- Somewhat poorly drained Wakeland soils in areas similar to those of the Dupo soil
- Poorly drained Darwin soils on toeslopes

Soil Properties and Qualities

Parent material: Silty alluvium over clayey alluvium
Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: 20 to 40 inches to abrupt textural change
Available water capacity: About 10.3 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 2.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Perched; 0.5 foot; January to May
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and moderate for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w
Prime farmland: All areas are prime farmland
Hydric soil: No

8184A—Roby fine sandy loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Fan on upland

Position on landform: Footslope

Composition

Roby soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas where the surface layer is loam or very fine sandy loam

Dissimilar inclusions:

- Well drained Alvin soils in more sloping areas
- Poorly drained Ruark soils on footslopes

Soil Properties and Qualities

Parent material: Sandy alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.5 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; 1.0 foot; January to May

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 2s

Prime farmland: All areas are prime farmland

Hydric soil: No

8184B—Roby fine sandy loam, 2 to 5 percent slopes, occasionally flooded

Setting

Landform on landscape: Fan on upland

Position on landform: Footslope

Composition

Roby soil and similar inclusions: 95 percent
Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas where the surface layer is loam or very fine sandy loam

Dissimilar inclusions:

- Well drained Alvin soils in more sloping areas

Soil Properties and Qualities

Parent material: Sandy alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderately rapid

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.5 inches to a depth of 60 inches

Organic matter content of surface layer: 0.5 to 1.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; 1.0 foot; January to May

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: Moderate for steel and high for concrete

Potential for surface runoff: High

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderately high

Interpretive Groups

Land capability classification: 2e

Prime farmland: All areas are prime farmland

Hydric soil: No

8284A—Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Tice soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas with loamy overwash

Dissimilar inclusions:

- Moderately well drained Medway soils on slight rises
- Poorly drained Darwin soils on toeslopes

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.3 inches to a depth of 60 inches
Organic matter content of surface layer: 2.0 to 3.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; 0.5 foot; January to May
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and low for concrete
Potential for surface runoff: High
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 2w
Prime farmland: All areas are prime farmland
Hydric soil: No

8288A—Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Petrolia soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that have received silty overwash
- Areas that are rarely flooded or frequently flooded

Dissimilar inclusions:

- Poorly drained Beaucoup and Piopolis soils in depressional areas

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Moderately slow
Permeability below a depth of 60 inches: Moderately slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.6 inches to a depth of 60 inches
Organic matter content of surface layer: 2.0 to 3.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; at the surface; January to June

Soil Survey of Pulaski County, Illinois

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and low for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w
Prime farmland: Prime farmland if drained
Hydric soil: Yes

8331A—Haymond silt loam, 0 to 3 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Haymond soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are occasionally flooded and/or flooded for shorter durations

Dissimilar inclusions:

- Moderately well drained Burnside soils and somewhat excessively drained Elsah soils on narrow flood plains
- Somewhat poorly drained Wakeland soils in slightly depressional areas

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 13.2 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 3.0 percent
Shrink-swell potential: Low
Flooding (frequency, months): Occasional; January to May
Potential frost action: High
Corrosivity: Low for steel and low for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w
Prime farmland: All areas are prime farmland
Hydric soil: No

8333A—Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Wakeland soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded

Dissimilar inclusions:

- Well drained Haymond soils on slight rises
- Poorly drained Birds soils in slight depressions

Soil Properties and Qualities

Parent material: Alluvium

Drainage class: Somewhat poorly drained

Slowest permeability within a depth of 40 inches: Moderate

Permeability below a depth of 60 inches: Moderate

Depth to restrictive feature: More than 80 inches

Available water capacity: About 12.7 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; 0.5 foot; January to May

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: High for steel and low for concrete

Potential for surface runoff: Low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w

Prime farmland: Prime farmland if drained

Hydric soil: No

8334A—Birds silt loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Birds soil and similar inclusions: 90 percent

Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Soils that contain more clay than the Birds soil

Dissimilar inclusions:

- Somewhat poorly drained Wakeland soils in the higher positions of the flood plain

Soil Properties and Qualities

Parent material: Silty alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Moderately slow

Permeability below a depth of 60 inches: Moderately slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 13.0 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: Low

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: High for steel and moderate for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w

Prime farmland: Prime farmland if drained

Hydric soil: Yes

8382A—Belknap silt loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Belknap soil and similar inclusions: 95 percent

Dissimilar inclusions: 5 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Soils that have a seasonal high water table at a depth of more than 2.0 feet
- Soils that are moderately acid to slightly alkaline

Dissimilar inclusions:

- Moderately well drained Sharon soils in the slightly higher areas of the flood plain
- Poorly drained Bonnie soils on toeslopes
- Poorly drained Piopolis soils on toeslopes

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Somewhat poorly drained
Slowest permeability within a depth of 40 inches: Moderately slow
Permeability below a depth of 60 inches: Moderately slow or moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 12.5 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 3.0 percent
Shrink-swell potential: Low
Highest seasonal high water table (kind, depth, months): Apparent; 0.5 foot; January to May
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 2w
Prime farmland: Prime farmland if drained
Hydric soil: No

8420A—Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Piopolis soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas that have silty overwash

Dissimilar inclusions:

- Soils that are better drained than the Piopolis soil

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Slow
Permeability below a depth of 60 inches: Slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.6 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 3.0 percent
Shrink-swell potential: Moderate
Highest seasonal high water table (kind, depth, months): Apparent; at the surface; January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w
Prime farmland: Prime farmland if drained
Hydric soil: Yes

8422A—Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Cape soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas of short steep slopes

Dissimilar inclusions:

- Soils on slight rises that are coarser textured and better drained than the Cape soil
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Clayey alluvium
Drainage class: Poorly drained
Slowest permeability within a depth of 40 inches: Very slow
Permeability below a depth of 60 inches: Very slow
Depth to restrictive feature: More than 80 inches
Available water capacity: About 8.3 inches to a depth of 60 inches
Organic matter content of surface layer: 1.0 to 3.0 percent
Shrink-swell potential: High
Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June
Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot
Flooding (frequency, months): Occasional; January to June
Potential frost action: High
Corrosivity: High for steel and high for concrete
Potential for surface runoff: Medium
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained
Hydric soil: Yes

8422A+—Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Cape soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Areas with thin or no overwash
- Areas of short steep slopes

Dissimilar inclusions:

- Soils on slight rises that are coarser textured and better drained than the Cape soil
- Recently flooded and scoured areas that have sandy deposits

Soil Properties and Qualities

Parent material: Silty alluvium over clayey alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 9.4 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.5 foot

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: High for steel and high for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Prime farmland if drained

Hydric soil: Yes

8426A—Karnak clay, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Karnak soil and similar inclusions: 85 percent
Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Overflow channels where silty overwash is evident
- Areas that are rarely flooded or frequently flooded
- Areas that are occasionally flooded and/or flooded for shorter durations than the Karnak soil

Dissimilar inclusions:

- Soils that are more acid than the Karnak soil
- Soils on slight rises that are coarser textured and better drained than the Karnak soil

Soil Properties and Qualities

Parent material: Clayey alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 7.0 inches to a depth of 60 inches

Organic matter content of surface layer: 2.0 to 3.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: High for steel and moderate for concrete

Potential for surface runoff: Very low

Water erosion susceptibility: Low

Wind erosion susceptibility: Moderate

Interpretive Groups

Land capability classification: 3w

Prime farmland: Farmland of statewide importance

Hydric soil: Yes

8426A+—Karnak silt loam, overwash, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Karnak soil and similar inclusions: 90 percent
Dissimilar inclusions: 10 percent

Inclusions

Similar inclusions:

Areas where silty overwash is absent

Soil Survey of Pulaski County, Illinois

Areas that are rarely flooded or frequently flooded
Areas that are occasionally flooded and/or flooded for shorter durations than the Karnak soil

Dissimilar inclusions:

- Soils that are more acid than the Karnak soil
- Soils on slight rises that are coarser textured and better drained than the Karnak soil

Soil Properties and Qualities

Parent material: Silty alluvium over clayey alluvium

Drainage class: Poorly drained

Slowest permeability within a depth of 40 inches: Very slow

Permeability below a depth of 60 inches: Very slow or slow

Depth to restrictive feature: More than 80 inches

Available water capacity: About 8.2 inches to a depth of 60 inches

Organic matter content of surface layer: 1.0 to 3.0 percent

Shrink-swell potential: High

Highest seasonal high water table (kind, depth, months): Apparent; at the surface;
January to June

Ponding (average depth during wettest periods or after heavy rainfall): 0.2 foot

Flooding (frequency, months): Occasional; January to June

Potential frost action: High

Corrosivity: High for steel and moderate for concrete

Potential for surface runoff: Medium

Water erosion susceptibility: Low

Wind erosion susceptibility: Low

Interpretive Groups

Land capability classification: 3w

Prime farmland: Farmland of statewide importance

Hydric soil: Yes

8597A—Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded

Setting

Landform on landscape: Flood plain in valley

Composition

Armiesburg soil and similar inclusions: 85 percent

Dissimilar inclusions: 15 percent

Inclusions

Similar inclusions:

- Areas that are rarely flooded or frequently flooded
- Soils that have a seasonal high water table at a depth of less than 3.5 feet

Dissimilar inclusions:

- Well drained Ware soils in slope positions similar to those of the Armiesburg soil
- Moderately well drained Medway soils in slope positions similar to those of the Armiesburg soil

Soil Properties and Qualities

Parent material: Alluvium
Drainage class: Well drained
Slowest permeability within a depth of 40 inches: Moderate
Permeability below a depth of 60 inches: Moderate
Depth to restrictive feature: More than 80 inches
Available water capacity: About 11.8 inches to a depth of 60 inches
Organic matter content of surface layer: 2.0 to 4.0 percent
Shrink-swell potential: Moderate
Flooding (frequency, months): Occasional; January to May
Potential frost action: High
Corrosivity: Moderate for steel and low for concrete
Potential for surface runoff: Low
Water erosion susceptibility: Low
Wind erosion susceptibility: Very low

Interpretive Groups

Land capability classification: 2w
Prime farmland: All areas are prime farmland
Hydric soil: No

MW—Miscellaneous water

This map unit consists of water bodies that are not available for recreational or wildlife uses. They are mainly associated with water supply systems or waste disposal systems.

This map unit is not assigned any interpretive groups.

W—Water

This map unit consists of natural water bodies and impoundments generally used for livestock water supplies, as wetland wildlife habitat, or for recreational purposes.

This map unit is not assigned any interpretive groups.

Use and Management of the Soils

This 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 forestland; as sites for buildings, sanitary facilities, 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 in all or part of the survey area. The survey can help planners to maintain or create a land use pattern in harmony with the natural soil.

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

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

Agronomy

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

The soils in Pulaski County have good potential for continued crop production, especially if the latest crop production technology is applied. This soil survey can be used as a guide for applying the latest crop production technology.

The demand for food and fiber has increased in recent years. As a result, some land of marginal quality has been used for crops. Much of this land is more susceptible to erosion than the more productive land. In addition, the number of residential tracts has increased throughout the county. These tracts commonly are in areas of prime farmland. If these trends continue, they could result in a significant decline in the quality and quantity of the land used for food and fiber.

Limitations and Hazards Affecting Cropland

The management concerns affecting the use of the detailed soil map units in the survey area for crops are shown in table 5. The main concerns include crusting, flooding, ponding, poor tilth, water erosion, and wetness. Excessive permeability, high pH, limited available water capacity, and wind erosion are additional concerns.

Crusting occurs when flowing water or raindrops break down soil structural units, moving clay downward and leaving a concentration of sand and silt particles on the surface layer. Crusts can reduce the rate of water infiltration, increase the runoff rate, inhibit seedling emergence and proper growth, and reduce oxygen diffusion to seedlings.

Practices that minimize surface crusting protect the surface from the impact of raindrops and flowing water. Incorporating green manure crops, manure, or crop residue into the soil and using a system of conservation tillage help to prevent crusting by improving tilth.

Flooding occurs in unprotected areas along major rivers and their tributaries. Levees or diversions reduce the extent of crop damage caused by floodwater. Surface drainage ditches can remove floodwater if suitable outlets are available. Management of drainage in conformance with regulations influencing wetlands may require special permits and extra planning. Selecting crop varieties adapted to a shorter growing season and wetter conditions can also reduce the extent of damage caused by flooding.

Ponding is a hazard in areas where the seasonal high water table is above the surface. Land grading helps to control ponding. Surface ditches and surface inlet tile also help to remove excess water if suitable outlets are available. Management of drainage in conformance with regulations influencing wetlands may require special permits and extra planning.

Poor tilth can occur in soils when part of the subsoil is incorporated into the plow layer, typically as a result of the thinning of the surface layer by erosion. The

incorporation of subsoil material into the plow layer decreases the amount of organic matter and increases the clay content in the surface soil. Intensive rainfall can result in the formation of a crust on the surface. Poor tilth also occurs in poorly drained soils that have a high clay content, regardless of organic matter content, and in soils that have been excessively tilled. Poor tilth reduces the rate of water infiltration and increases the runoff rate and the hazard of erosion in the more sloping areas. Soils with poor tilth generally have a surface layer that is sticky when wet and hard and cloddy when dry. Because they can be tilled only within a narrow range of moisture content, seedbed preparation is difficult. Regularly returning crop residue to the soil, adding other organic material to the soil, minimizing tillage, and timing conservation tillage operations to near optimal soil moisture conditions can improve tilth.

Water erosion can occur if the surface soil is not protected against the impact of raindrops. Erosion leads to a reduction in soil aggregate stability, which reduces the rate of water infiltration and increases the rate of surface runoff. Soils with long or steep slopes are more susceptible than other soils to water erosion. Erosion, primarily sheet and rill erosion, removes the surface soil, which commonly has the highest amount of biological activity and the highest content of organic matter. The productivity of the soil is reduced as the content of organic matter and the level of natural fertility are lowered. Poor tilth and crusting can occur when the subsoil, which generally has a higher content of clay than the surface soil, is incorporated through tillage into the plow layer. Excessive runoff can impact the quality of surface water through sedimentation and contamination by pesticides.

Erosion can be controlled by a conservation tillage system that leaves crop residue on the surface after planting or by a cropping system that rotates grasses and legumes in the cropping sequence. On soils with long, uniform slopes, contour farming and/or terraces in combination with a conservation tillage system can help to control erosion.

Wetness is a limitation when the seasonal high water table is at or near the surface. Subsurface tile drains can lower the seasonal high water table if suitable outlets are available. In soils that have a high content of clay and restricted permeability, subsurface drainage may not be practical. In these soils, surface ditches can reduce the wetness. Management of drainage in conformance with regulations influencing wetlands may require special permits and extra planning.

Additional management concerns are as follows:

Excessive permeability can occur in soils that have a high content of sand, which has many large pores. The capacity of these soils to retain moisture for plant use is limited. Deep leaching of nutrients and pesticides is possible and increases the risk of ground-water pollution. Irrigation can supply the moisture needed for crops. In addition, frequent applications of a small amount of fertilizer are needed; one application of a large amount of fertilizer can result in excessive leaching of plant nutrients.

High pH is a limitation if the pH is more than 8.3. This limitation can affect the availability of many plant nutrients and influences the effectiveness of herbicides. More frequent applications of a small amount of fertilizer are needed to correct nutrient imbalances. Crops may respond well to additions of phosphate fertilizer in areas where the soils are limited by a high pH. The applications of herbicides should be adjusted as the level of alkalinity increases. Incorporating green manure crops, manure, or crop residue into the soil, applying a system of conservation tillage, and using conservation cropping systems also help to overcome this limitation.

Limited available water capacity can occur in soils that have a high content of sand, a low content of clay, and a low content of organic matter. Reducing the evaporation and runoff rates and increasing the rate of water infiltration can conserve soil moisture. Measures that conserve soil moisture include applying conservation tillage and conservation cropping systems, establishing field windbreaks, and leaving crop residue on the surface.

Wind erosion can occur when the surface of the soil is not protected. Wind erosion can be controlled by applying a system of conservation tillage that leaves crop residue on the surface after planting, by using tillage systems that leave the surface rough, by establishing field windbreaks, and by regularly adding organic material to the soil.

Following are explanations of the criteria used to determine the limitations listed in the table.

Crusting.—The average content of organic matter in the surface layer is less than or equal to 2.5 percent, and the content of clay is between 20 and 35 percent.

Excessive permeability.—The lower limit of the permeability rate is more than 6 inches per hour within the soil profile.

Flooding.—The soil is subject to occasional or frequent flooding.

High pH.—The upper limit of pH within a depth of 40 inches is more than 8.3.

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.

Ponding.—Water is above the surface. The upper limit of the ponding depth is more than 0 inches.

Poor tilth.—The content of clay in the surface layer is 27 percent or more.

Water erosion.—The Kw factor multiplied by the slope is more than 0.8, and the slope is 3 percent or more.

Wetness.—The seasonal high water table is within a depth of 1.5 feet at some time during the growing season during normal years.

Wind erosion.—The wind erodibility group is 1 or 2.

Erosion factors (e.g., Kw factor) and wind erodibility groups are described under the heading “Physical Properties.”

Limitations and Hazards Affecting Pastureland

Management concerns affecting the use of the detailed soil map units in the survey area for pasture are shown in table 5. The main concerns in managing pastureland are low fertility, low pH, water erosion, and wetness. Additional management concerns include equipment limitations, excessive permeability, flooding, frost heave, high pH, limited available water capacity, ponding, poor tilth, and wind erosion.

Low fertility occurs in soils that have a low content of organic matter and a low cation-exchange capacity. The capacity of the soil to retain nutrients for plant use is limited. Frequent applications of small amounts of fertilizer help to prevent excessive loss of plant nutrients through leaching. Including legumes as part of a seeding mixture can provide nitrogen to the grass varieties. Timely deferment of grazing helps to maintain a vegetative cover on the surface and maintains the content of organic matter, a source of nutrients in the soil.

Low pH occurs when soils have a pH of 5.5 or less. This limitation can reduce solubility and availability of nutrients for plant growth. Selecting adapted forage and hay varieties and applying lime according to the results of soil tests can help to overcome this limitation.

Water erosion can occur in overgrazed areas or during pasture establishment and renovation, when the surface soil is not protected against raindrop impact. It results in poor tilth, which reduces the rate of water infiltration and increases the runoff rate. Soils with long or steep slopes also are susceptible to water erosion. Erosion can be controlled by deferred grazing, which prevents overgrazing and thus also helps to prevent surface compaction and excessive runoff and erosion. Tilling on the contour, using a no-till system of seeding when a seedbed is prepared or the pasture is renovated, and selecting adapted forage and hay varieties also help to control erosion.

Wetness occurs when the seasonal high water table is at or near the surface. Subsurface tile drains help to lower the seasonal high water table if suitable outlets are available. Management of drainage in conformance with regulations may require

special permits and extra planning. Selecting forage and hay varieties adapted to wet conditions can improve forage production. Restricting use during wet periods helps to keep the pasture in good condition.

Additional management concerns are as follows:

Equipment limitations occur in areas that have slopes of more than 18 percent. They can cause rapid wear of equipment and can present problems with fertilization, harvest, pasture renovation, and seedbed preparation. Equipment limitations cannot be easily overcome.

Excessive permeability can occur in soils that have a high content of sand and thus have many large pores. The capacity of these soils to retain moisture for plant use is limited. The deep leaching of nutrients and pesticides can increase the risk of ground-water pollution. Irrigation can be used to supply the moisture needed for plant growth. Frequent applications of a small amount of fertilizer are needed; a single application of a large amount of fertilizer can result in excessive leaching of plant nutrients.

Flooding occurs in unprotected areas along the major rivers and their tributaries. Surface drainage ditches can help to remove floodwater if suitable outlets are available. Management of drainage in conformance with regulations may require special permits and extra planning. Selecting forage and hay varieties adapted to a shorter growing season and wetter conditions also reduces the extent of flood damage. Restricted use during wet periods helps to keep the pasture in good condition.

Frost heave occurs when ice lenses or bands develop in the soil and drive an ice wedge between two layers of soil near the surface layer. The ice wedges heave the overlying soil layer upward, snapping the roots. Soils in which the texture is low in sand have small pores that hold water and enable ice lenses to form. Selecting adapted forage and hay varieties can reduce the effects of frost heave. Timely deferment of grazing helps to maintain a vegetative cover on the surface that insulates the soil and thus reduces the effects of frost heave.

High pH is a limitation if the pH is more than 8.3. This limitation affects the availability of many nutrients for plant growth. More frequent applications of a small amount of fertilizer are needed to correct nutrient imbalances. Selecting adapted forage and hay varieties helps to overcome this limitation.

Limited available water capacity can occur in soils that have a high content of sand, a low content of clay, and a low content of organic matter. Reducing the evaporation and runoff rates and increasing the rate of water infiltration can conserve soil moisture. Measures that conserve soil moisture include applying conservation tillage and conservation cropping systems, establishing field windbreaks, and leaving crop residue on the surface.

Ponding occurs when the seasonal high water table is above the surface. Land grading helps to control ponding. Surface ditches and surface inlet tile also help to remove excess water if suitable outlets are available. Management of drainage in conformance with regulations may require special permits and extra planning. Selecting forage and hay varieties adapted to wet conditions can improve forage production. Restricting use during wet periods helps to keep the pasture in good condition.

Poor tilth can occur in soils when part of the subsoil is incorporated into the plow layer, typically as a result of the thinning of the surface layer by erosion. Poor tilth reduces the content of organic matter and increases the clay content in the surface soil. Intensive rainfall often results in the formation of a crust on the surface. Poor tilth also occurs in poorly drained soils that have a high content of clay, regardless of organic matter content, and in soils that have been excessively tilled. Poor tilth reduces the rate of water infiltration and increases the runoff rate and the hazard of erosion in the more sloping areas. Soils with poor tilth generally have a surface layer that is sticky when wet and hard and cloddy when dry. Because they can be tilled only within a

narrow range of moisture content, seedbed preparation is difficult. Minimizing tillage and timing conservation tillage operations to near optimal soil moisture conditions during pasture establishment or pasture renovation can improve tilth.

Wind erosion can occur in overgrazed areas or during pasture establishment and renovation if the surface of the soil is not protected. Wind erosion can be controlled by applying a system of conservation tillage that leaves crop residue on the surface after planting, by using tillage systems that leave the surface rough, by establishing field windbreaks, and by regularly adding organic material to the soil.

Following are explanations of the criteria used to determine the limitations listed in the table.

Equipment limitation.—The slope is more than 18 percent.

Excessive permeability.—The lower limit of the permeability rate is more than 6 inches per hour within the soil profile.

Flooding.—The soil is subject to occasional or frequent flooding.

Frost heave.—The potential for frost action is moderate or high, and the soil is poorly drained or very poorly drained.

High pH.—The upper limit of pH within a depth of 40 inches is more than 8.3.

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.

Low fertility.—The average content of organic matter in the surface layer is less than 1 percent, or the cation-exchange capacity is 7 or less.

Low pH.—The lower limit of pH within a depth of 40 inches is less than or equal to 5.5.

Ponding.—Water is above the surface. The upper limit of the ponding depth is more than 0 inches.

Poor tilth.—The content of clay in the surface layer is 27 percent or more.

Water erosion.—The K_w factor multiplied by the slope is more than 1, and the slope is 3 percent or more.

Wetness.—The seasonal high water table is within a depth of 1.5 feet.

Wind erosion.—The wind erodibility group is 1 or 2.

Erosion factors (e.g., K_w factor) and wind erodibility groups are described under the heading “Physical Properties.”

Yields per Acre

The average yields per acre that can be expected of the principal crops and pasture plants under a high level of management are shown in table 6. In any given year, yields may be higher or lower than those indicated in the table because of variations in rainfall and other climatic factors. The land capability classification of map units in the survey area also is shown in the table.

The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations are also considered. The yields in this soil survey for corn, soybeans, wheat, grain sorghum, and hay represent high levels of management. The yields in this soil survey for pasture represent average levels of management. Data are from the University of Illinois (10, 11).

The management needed to obtain the indicated yields of the various crops and pasture plants depends on the kind of soil and the plant species. Management can include drainage, erosion control, and protection from flooding; the proper planting and seeding rates; suitable high-yielding plant 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 species; effective use of crop residue, barnyard manure, and green manure crops; and harvesting that ensures the smallest possible loss.

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

Land Capability Classification

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. The capability classification of map units in the survey area is given in table 6. 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 (19). 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 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, 2*e*. 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.

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 that have a zone high in the profile in which the soil moisture status is wet 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.

The map units in the survey area that meet the requirements for prime farmland are listed in table 7. 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 detailed soil maps. The soil qualities that affect use and management are described in the section "Detailed Soil Map Units."

Hydric Soils

In this section, hydric soils are defined and described and the hydric soils in the survey area are listed.

The three essential characteristics of wetlands are hydrophytic vegetation, hydric

soils, and wetland hydrology (3, 8, 14, 15). Criteria for each of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (4). These soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (5). These criteria are used to identify a phase of a soil series that normally is associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (16) and "Keys to Soil Taxonomy" (18) and in the "Soil Survey Manual" (21).

If soils are wet enough for a long enough period to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils in this survey area are specified in "Field Indicators of Hydric Soils in the United States" (17).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

The map units listed in table 8 meet the definition of hydric soils and, in addition, have at least one of the hydric soil indicators. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (8).

Map units that are made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The map units listed in table 9, in general, do not meet the definition of hydric soils because they do not have one of the hydric soil indicators. A portion of these map units, however, may include hydric soils. Onsite investigation is recommended to determine whether hydric soils occur and the location of the included hydric soils.

Forestland Management

In table 10, parts I, II, and III, interpretive ratings and information are given for various aspects of forestland management.

Some rating class terms indicate the degree to which the soils are suited to a specified forest management practice. *Well suited* indicates that the soil has features that are favorable for the specified practice and has no limitations. Good performance can be expected, and little or no maintenance is needed. *Moderately suited* indicates that the soil has features that are moderately favorable for the specified practice. One

or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. *Poorly suited* indicates that the soil has one or more properties that are unfavorable for the specified practice. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. *Unsuited* indicates that the expected performance of the soil is unacceptable for the specified practice or that extreme measures are needed to overcome the undesirable soil properties.

Some rating class terms indicate the degree of limitation that restricts the use of a soil for a specific purpose. A *slight* rating is given to soils that have properties favorable for the use. Good performance and low maintenance can be expected. A *moderate* rating is given to soils that have properties that are moderately favorable for the use, and the limitation can be overcome or modified by special planning, design, or maintenance. The expected performance is somewhat less desirable than for soils rated slight. A *severe* rating is given to soils that have one or more properties unfavorable for the rated use. This degree of limitation generally requires major soil reclamation, special design, or intensive maintenance.

Numerical ratings in the suitability and limitation tables indicate the 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 specified forest management practice (1.00) and the point at which the soil feature is not a limitation (0.00).

The paragraphs that follow indicate the soil properties considered in rating the soils for forest management practices. More detailed information about the criteria used in the ratings is available in the "National Forestry Manual," which is available at the local office of the Natural Resources Conservation Service or on the Internet.

For *limitations affecting construction of haul roads and major skid trails*, the ratings are based on slope, flooding, permafrost, plasticity index, the hazard of soil slippage, content of sand, the Unified classification, rock fragments on or below the surface, depth to a restrictive layer that is indurated, depth to a water table, and ponding. The limitations are described as slight, moderate, or severe. A rating of slight indicates that no significant limitations affect construction activities, moderate indicates that one or more limitations can cause some difficulty in construction, and severe indicates that one or more limitations can make construction very difficult or very costly.

The ratings of *suitability for log landings* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, ponding, flooding, and the hazard of soil slippage. The soils are described as well suited, moderately suited, or poorly suited.

The ratings of *suitability for equipment operability* for logging areas are based on slope, landscape stability, water table duration, stoniness, boulder content, soil texture, and flooding. The soils are described as well suited, moderately suited, or poorly suited.

The ratings for *suitability for mechanized site preparation* are based on soil erodibility, soil texture, soil depth, drainage, water table duration, flooding, and the amount of cobbles, stones, or boulders on the surface. The soils are described as well suited, moderately suited, or poorly suited.

For limitations affecting *prescribed burning*, the ratings are based on slope, soil texture, drainage class, and rooting depth. Soils rated slight have few limitations that affect the reestablishment of vegetation. Soils that have moderate limitations require post-burning practices to achieve the desired results. Soils that have severe limitations require post-burning practices to achieve the desired erosion control.

Ratings in the column *erosion hazard on roads and trails* are based on the soil erodibility factor K, slope, and content of rock fragments. The ratings apply to unsurfaced roads and trails. The hazard is described as slight, moderate, or severe. A

rating of slight indicates that little or no erosion is likely; moderate indicates that some erosion is likely, that the roads or trails may require occasional maintenance, or that simple erosion-control measures are needed; and severe indicates that significant erosion is expected, that the roads or trails require frequent maintenance, and that costly erosion-control measures are needed.

Ratings in the column *suitability for roads (natural surface)* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, ponding, flooding, and the hazard of soil slippage. The ratings indicate the suitability for using the natural surface of the soil for roads. The soils are described as well suited, moderately suited, or poorly suited.

Forestland Productivity

Information about the *potential productivity* of map unit components for merchantable or *common trees* is provided in table 11. The four common tree species are white oak, northern red oak, eastern cottonwood, and pin oak. Site indices are listed for soils where the species are commonly grown. The site indices in this soil survey are from the University of Illinois (10).

The potential productivity of a component is expressed as a *site index*. The site index is the average height, in feet, that dominant and codominant trees of a given species attain in a specified number of years. The site index applies to fully stocked, even-aged, unmanaged stands. Commonly grown trees are those that woodland managers generally favor in intermediate or improvement cuttings. They are selected on the basis of growth rate, quality, value, and marketability.

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 12 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 the local office of the Natural Resources Conservation Service or the Cooperative Extension Service or from a nursery.

Recreation

The soils in the survey area are rated in table 13, parts I and II, 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 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).

The ratings in the table 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 table 13 can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, sanitary facilities, 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 water table, 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 water table, 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 water table, 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 seasonal high water table, 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 water table, 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 water table; 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 water table, 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

Pulaski County provides a variety of habitat for wildlife, including forests, pastureland, extensive flood plains, bluffs, and wetlands. The wildlife is also varied. There are populations of white-tailed deer, red-tailed hawks, bald eagles, wild turkey, snakes, gray squirrels, rabbits, bobwhite quail, and furbearers and many other nongame birds, mammals, amphibians, and reptiles. Wetland areas and streams support waterfowl, wading birds, shore birds, mink, muskrat, and a few river otters. Local conservation officials can assist in the selection of plants and the planning of wildlife habitat areas.

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. The kind and abundance of wildlife depend largely on the amount and distribution of food, cover, and water. Wildlife habitat can be created or improved by planting the appropriate vegetation, by maintaining the existing plant cover, or by promoting the natural establishment of desirable plants.

In table 14, 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. Moderately 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. Soil properties and features that affect the growth of grain and seed crops are depth of the root zone, texture of the surface layer, available water capacity, wetness, slope, surface stoniness, and flooding. Soil temperature and soil moisture also are considerations. Examples of grain and seed crops are corn, wheat, sorghum, and soybeans.

Grasses and legumes are domestic perennial grasses and herbaceous legumes. Soil properties and features that affect the growth of grasses and legumes are depth of the root zone, texture of the surface layer, available water capacity, wetness, surface stoniness, flooding, and slope. Soil temperature and soil moisture also are considerations. Examples of grasses and legumes are fescue, orchardgrass, bromegrass, clover, and alfalfa.

Wild herbaceous plants are native or naturally established grasses and forbs, including weeds. Soil properties and features that affect the growth of these plants are depth of the root zone, texture of the surface layer, available water capacity, wetness, surface stoniness, and flooding. Soil temperature and soil moisture also are considerations. Examples of wild herbaceous plants are bluestem, ragweed, beggarweed, broomsedge, and grama.

Hardwood trees and woody understory produce nuts or other fruit, buds, catkins, twigs, bark, and foliage. Soil properties and features that affect the growth of hardwood trees and shrubs are depth of the root zone, available water capacity, and wetness. Examples of these plants are oak, poplar, cherry, sweetgum, apple, hawthorn, dogwood, hickory, blackberry, and blueberry.

Coniferous plants furnish browse and seeds. Soil properties and features that affect the growth of coniferous trees, shrubs, and ground cover are depth of the root zone, available water capacity, and wetness. Examples of coniferous plants are pine, spruce, fir, cedar, and juniper.

Wetland plants are annual and perennial wild herbaceous plants that grow on moist or wet sites. Submerged or floating aquatic plants are excluded. Soil properties and features affecting wetland plants are texture of the surface layer, wetness, reaction, salinity, slope, and surface stoniness. Examples of wetland plants are smartweed, wild millet, wildrice, cattail, cordgrass, rushes, sedges, and reeds.

Shallow water areas have an average depth of less than 5 feet. Some are naturally wet areas. Others are created by dams, levees, or other water-control structures. Soil properties and features affecting shallow water areas are depth to bedrock, wetness, surface stoniness, slope, and permeability. Examples of shallow water areas are marshes, waterfowl feeding areas, and ponds.

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, shrubs, and vines. These areas produce grain and

seed crops, grasses and legumes, and wild herbaceous plants. Wildlife attracted to these areas include bobwhite quail, pheasant, meadowlark, field sparrow, cottontail, and red fox.

Habitat for woodland wildlife consists of areas of deciduous and/or coniferous plants and associated grasses, legumes, and wild herbaceous plants. Wildlife attracted to these areas include wild turkey, woodcock, thrushes, woodpeckers, squirrels, gray fox, raccoon, and deer.

Habitat for wetland wildlife consists of open, marshy or swampy shallow water areas. Some of the wildlife attracted to such areas are ducks, geese, herons, shore birds, muskrat, 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, sanitary facilities, construction materials, and water management. The ratings are based on observed performance of the soils and on the estimated data and test data in the "Soil Properties" section.

Information in this section is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil 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 water table, 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, shrink-swell potential, available water capacity, and other behavioral characteristics affecting engineering uses.

This information can be used to evaluate the potential of areas for residential, commercial, industrial, and recreational uses; make preliminary estimates of construction conditions; evaluate alternative routes for roads, streets, highways, pipelines, and underground cables; evaluate alternative sites for sanitary landfills, septic tank absorption fields, and sewage lagoons; 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. Table 15, parts I and II, 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 table 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. *Slightly limited* indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and 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 0.00 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 about 7 feet. The ratings for dwellings 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 water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a water table, 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 water table, ponding, flooding, subsidence, 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 water table, ponding, 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 water table, 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), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding.

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 the seasonal high water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

Lawns 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 water table; 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 water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer.

Sanitary Facilities

Table 16, parts I and II, show the degree and kind of soil limitations that affect septic tank absorption fields, sewage lagoons, sanitary landfills, and daily cover for landfill. 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. *Slightly limited* indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and 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 0.00 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).

Septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 60 inches is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of

the system, and public health. Permeability, depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

Sewage lagoons are shallow ponds constructed to hold sewage while aerobic bacteria decompose the solid and liquid wastes. Lagoons should have a nearly level floor surrounded by cut slopes or embankments of compacted soil. Nearly impervious soil material for the lagoon floor and sides is required to minimize seepage and contamination of ground water. Considered in the ratings are slope, permeability, depth to a water table, ponding, depth to bedrock or a cemented pan, flooding, large stones, and content of organic matter.

Soil permeability is a critical property affecting the suitability for sewage lagoons. Most porous soils eventually become sealed when they are used as sites for sewage lagoons. Until sealing occurs, however, the hazard of pollution is severe. Soils that have a permeability rate of more than 2 inches per hour are too porous for the proper functioning of sewage lagoons. In these soils, seepage of the effluent can result in contamination of the ground water. Ground-water contamination is also a hazard if fractured bedrock is within a depth of 40 inches, if the water table is high enough to raise the level of sewage in the lagoon, or if floodwater overtops the lagoon.

A high content of organic matter is detrimental to proper functioning of the lagoon because it inhibits aerobic activity. Slope, bedrock, and cemented pans can cause construction problems, and large stones can hinder compaction of the lagoon floor. If the lagoon is to be uniformly deep throughout, the slope must be gentle enough and the soil material must be thick enough over bedrock or a cemented pan to make land smoothing practical.

A *trench sanitary landfill* is an area where solid waste is placed in successive layers in an excavated trench. The waste is spread, compacted, and covered daily with a thin layer of soil excavated at the site. When the trench is full, a final cover of soil material at least 2 feet thick is placed over the landfill. The ratings in the table are based on the soil properties that affect the risk of pollution, the ease of excavation, trafficability, and revegetation. These properties include permeability, depth to bedrock or a cemented pan, depth to a water table, ponding, slope, flooding, texture, stones and boulders, highly organic layers, soil reaction, and content of salts and sodium. Unless otherwise stated, the ratings apply only to that part of the soil within a depth of about 6 feet. For deeper trenches, onsite investigation may be needed.

Hard, nonrippable bedrock, creviced bedrock, or highly permeable strata in or directly below the proposed trench bottom can affect the ease of excavation and the hazard of ground-water pollution. Slope affects construction of the trenches and the movement of surface water around the landfill. It also affects the construction and performance of roads in areas of the landfill.

Soil texture and consistence affect the ease with which the trench is dug and the ease with which the soil can be used as daily or final cover. They determine the workability of the soil when dry and when wet. Soils that are plastic and sticky when wet are difficult to excavate, grade, or compact and are difficult to place as a uniformly thick cover over a layer of refuse.

The soil material used as the final cover for a trench landfill should be suitable for plants. It should not have excess sodium or salts and should not be too acid. The surface layer generally has the best workability, the highest content of organic matter,

and the best potential for plants. Material from the surface layer should be stockpiled for use as the final cover.

In an *area sanitary landfill*, solid waste is placed in successive layers on the surface of the soil. The waste is spread, compacted, and covered daily with a thin layer of soil from a source away from the site. A final cover of soil material at least 2 feet thick is placed over the completed landfill. The ratings in the table are based on the soil properties that affect trafficability and the risk of pollution. These properties include flooding, permeability, depth to a water table, ponding, slope, and depth to bedrock or a cemented pan.

Flooding is a serious problem because it can result in pollution in areas downstream from the landfill. If permeability is too rapid or if fractured bedrock, a fractured cemented pan, or the water table is close to the surface, the leachate can contaminate the water supply. Slope is a consideration because of the extra grading required to maintain roads in the steeper areas of the landfill. Also, leachate may flow along the surface of the soils in the steeper areas and cause difficult seepage problems.

Daily cover for landfill is the soil material that is used to cover compacted solid waste in an area sanitary landfill. The soil material is obtained offsite, transported to the landfill, and spread over the waste. The ratings in the table also apply to the final cover for a landfill. They are based on the soil properties that affect workability, the ease of digging, and the ease of moving and spreading the material over the refuse daily during wet and dry periods. These properties include soil texture, depth to a water table, ponding, rock fragments, slope, depth to bedrock or a cemented pan, reaction, and content of salts, sodium, or lime.

Loamy or silty soils that are free of large stones and excess gravel are the best cover for a landfill. Clayey soils may be sticky and difficult to spread; sandy soils are subject to wind erosion.

Slope affects the ease of excavation and of moving the cover material. Also, it can influence runoff, erosion, and reclamation of the borrow area.

After soil material has been removed, the soil material remaining in the borrow area must be thick enough over bedrock, a cemented pan, or the water table to permit revegetation. The soil material used as the final cover for a landfill should be suitable for plants. It should not have excess sodium, salts, or lime and should not be too acid.

Construction Materials

Table 17, parts I and II, give information about the soils as potential sources of gravel, sand, topsoil, reclamation material, and roadfill. 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 17, 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 an unlikely 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 table. 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 reconstruction 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 this table, 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 water table, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHTO 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 water table, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope, depth to a water table, 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 18, parts I, II, and III, give 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 limitations are considered *slight* if soil properties and site features are generally favorable for the indicated use and limitations are minor and are easily overcome; *moderate* if soil properties or site features are not favorable for the indicated use and special planning, design, or maintenance is needed to overcome or minimize the limitations; and *severe* if soil properties or site features are so

unfavorable or so difficult to overcome that special design, significant increase in construction costs, and possibly increased maintenance are required.

Numerical ratings in the table indicate the 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 (1.00) and the point at which the soil feature is not a limitation (0.00).

This table also gives for each soil the restrictive features that affect grassed waterways and surface drains, terraces and diversions, tile drains and underground outlets, and irrigation.

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. 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 high water table 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 water table. 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 water table, 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.

Grassed waterways and surface drains are natural or constructed channels, generally broad and shallow, that conduct surface water to outlets at a nonerosive velocity. Large stones, wetness, slope, and depth to bedrock or a cemented pan affect the construction of grassed waterways. A hazard of wind erosion, low available water capacity, restricted rooting depth, toxic substances such as salts and sodium, and restricted permeability adversely affect the growth and maintenance of the grass after construction.

Terraces and diversions are embankments or a combination of channels and ridges constructed across a slope to control erosion and conserve moisture by intercepting runoff. Slope, wetness, large stones, and depth to bedrock or a cemented pan affect the construction of terraces and diversions. A restricted rooting depth, a severe hazard of wind erosion or water erosion, an excessively coarse texture, and restricted permeability adversely affect maintenance.

Tile drains and underground outlets remove excess surface and subsurface water from the soil. How easily and effectively the soil is drained depends on the depth to bedrock or other layers that affect the rate of water movement; permeability; depth to a high water table or depth of standing water if the soil is subject to ponding; slope; susceptibility to flooding; subsidence of organic layers; and the potential for frost

action. Excavating and grading and the stability of ditchbanks are affected by depth to bedrock, large stones, slope, and the hazard of cutbanks caving. The productivity of the soil after drainage is adversely affected by extreme acidity or by toxic substances in the root zone, such as salts, sodium, and sulfur.

Irrigation is the controlled application of water to supplement rainfall and support plant growth. The design and management of an irrigation system are affected by depth to the water table, the need for drainage, flooding, available water capacity, intake rate, permeability, erosion hazard, and slope. The construction of a system is affected by large stones and depth to bedrock or a cemented pan. The performance of a system is affected by the depth of the root zone, the amount of salts or sodium, and soil reaction.

Sprinkler irrigation is a method of irrigation in which water is pumped through nozzles and sprayed, or sprinkled, through the air to the ground surface.

Drip or trickle irrigation is a method of irrigation in which water is applied to the soil surface as drops or small streams through emitters.

Soil Properties

Data relating to soil properties are collected during the course of the soil survey.

Soil properties are ascertained 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 particle-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 are shown in the tables. They include engineering index properties, physical and chemical properties, and pertinent soil and water features.

Engineering Index Properties

Table 19 gives the engineering classifications and the range of index properties for the layers of each soil in the survey area.

Depth to the upper and lower boundaries of each layer 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 15 percent or more, an appropriate modifier is added, for example, "gravelly." Textural terms are defined in the Glossary.

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

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-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, CL-ML.

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 particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional

refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

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

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

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

The estimates of particle-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 generally omitted in the table.

Physical Properties

Table 20 shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In table 20, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. The estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

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

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, permeability, plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving 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 $1/3$ - or $1/10$ -bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is

dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 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 (K_{sat}) 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 soil layer. The capacity varies, depending on soil properties that affect retention of water. 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 refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at $1/3$ - or $1/10$ -bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. Volume change is influenced by the amount and type of clay minerals in the soil.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In table 20, 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 by returning crop residue to the soil. Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in table 20 as the K factor (K_w and K_f) 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 six 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 K_w indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

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

Erosion factor T is an estimate of the maximum average 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. The groups are as follows:

1. Coarse sands, sands, fine sands, and very fine sands.
2. Loamy coarse sands, loamy sands, loamy fine sands, loamy very fine sands, ash material, and sapric soil material.
3. Coarse sandy loams, sandy loams, fine sandy loams, and very fine sandy loams.
- 4L. Calcareous loams, silt loams, clay loams, and silty clay loams.
4. Clays, silty clays, noncalcareous clay loams, and silty clay loams that are more than 35 percent clay.
5. Noncalcareous loams and silt loams that are less than 20 percent clay and sandy clay loams, sandy clays, and hemic soil material.
6. Noncalcareous loams and silt loams that are more than 20 percent clay and noncalcareous clay loams that are less than 35 percent clay.
7. Silts, noncalcareous silty clay loams that are less than 35 percent clay, and fibric soil material.
8. Soils that are not subject to wind erosion because of coarse fragments on the surface or because of surface wetness.

Chemical Properties

Table 21 shows estimates of some chemical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

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.

Effective cation-exchange capacity refers to the sum of extractable bases plus aluminum expressed in terms of milliequivalents per 100 grams of soil. It is determined for soils that have a pH of less than 5.5.

Soil reaction is a measure of acidity or alkalinity. The pH of each soil 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.

Water Features

Table 22 gives estimates of various water features. The estimates are used in land use planning that involves engineering considerations.

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils

are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of 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 moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture 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 clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group, the first letter is for drained areas and the second is for undrained areas.

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 indicates *surface water depth* and the *duration* and *frequency* of ponding. Duration is expressed as *very brief* if less than 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, rare, occasional, and frequent. *None* means that ponding is not probable; *rare* that it is unlikely but possible under unusual weather conditions (the chance of ponding is nearly 0 percent to 5 percent in any year); *occasional* that it occurs, on the average, once or less in 2 years (the chance of ponding is 5 to 50 percent in any year); and *frequent* that it occurs, on the average, more than once in 2 years (the chance of ponding is more than 50 percent in any year).

Flooding is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Duration and *frequency* are estimated. Duration is expressed as *extremely brief* if 0.1 hour to 4 hours, *very brief* if 4 hours to 2 days, *brief* if 2 to 7 days, *long* if 7 to 30 days, and *very long* if more than 30 days. Frequency is expressed as none, very rare, rare, occasional, frequent, and very frequent. *None* means that flooding is not probable; *very rare* that it is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year); *rare* that it is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year); *occasional* that it occurs infrequently under normal weather conditions (the chance of flooding is 5 to 50 percent in any year); *frequent* that it is likely to occur often under normal weather conditions (the chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year); and *very frequent* that it is likely to occur very often under normal weather conditions (the chance of flooding is more than 50 percent in all months of any year).

The information 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 levels 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.

The *months* in the table indicate the portion of the year in which the water table is most likely to be a concern.

Water table refers to a saturated zone in the soil. Table 22 indicates, by month, depth to the top (*upper limit*) and base (*lower limit*) of the saturated zone in most years. Estimates of the upper and lower limits are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors or mottles (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

Also indicated in the table is the *kind of water table*. An *apparent* water table is a thick zone of free water in the soil. It is indicated by the level at which water stands in an uncased borehole after adequate time is allowed for adjustment in the surrounding soil. A *perched* water table is water standing above an unsaturated zone. In places, an upper, or perched, water table is separated from a lower one by a dry zone.

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. The table indicates the hardness of the restrictive layer, which significantly affects the ease of excavation. *Depth to top* is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

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 the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage 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.

Classification of the Soils

The system of soil classification used by the National Cooperative Soil Survey has six categories (16, 18). 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 24 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 Alfisol.

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 Udalf (*Ud*, meaning humid, plus *alf*, from Alfisol).

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 Hapludalfs (*Hapl*, meaning simple, plus *udalf*, the suborder of the Alfisols that has an udic moisture regime).

SUBGROUP. Each great group has a typic subgroup. Other subgroups are intergrades or extragrades. 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. Extragrades 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 Hapludalfs.

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-silty, mixed, superactive, mesic Typic Hapludalfs.

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.

Soil Series and Their Morphology

In this section, arranged in alphabetical order, each soil series recognized in the survey area is described. Characteristics of the soil and the material in which it formed

are identified for each series. A pedon, a small three-dimensional area of soil, that is typical of the series in the survey area is described. The detailed description of each soil horizon follows standards in the "Soil Survey Manual" (21). Many of the technical terms used in the descriptions are defined in "Soil Taxonomy" (16) and in "Keys to Soil Taxonomy" (18). Unless otherwise indicated, colors in the descriptions are for moist soil. Following the pedon description is the range of important characteristics of the soils in the series.

Alford Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Ultic Hapludalfs

Typical Pedon

Alford silt loam; in Knox County, Indiana; on a gently sloping, convex, east-facing slope, at an elevation of about 560 feet above mean sea level, in a cultivated field approximately 2,200 feet southwest and 1,200 feet southeast of the northwest corner of Donation 162, T. 2 N., R. 9 W.; USGS Fritchton, IN-IL topographic quadrangle; lat. 38 degrees 37 minutes 46 seconds N. and long. 87 degrees 26 minutes 06 seconds W.; UTM Zone 16, Easting 462146, Northing 4275764, NAD 83:

- Ap—0 to 6 inches; brown (10YR 4/3) silt loam, light yellowish brown (10YR 6/4) dry; weak medium granular structure; friable; few fine roots; moderately acid; abrupt smooth boundary.
- Bt1—6 to 9 inches; brown (7.5YR 5/4) silty clay loam; weak medium subangular blocky structure; friable; common distinct brown (7.5YR 4/4) clay films on faces of peds; few fine roots; very strongly acid; clear smooth boundary.
- Bt2—9 to 22 inches; brown (7.5YR 4/4) silty clay loam; moderate medium subangular blocky structure; firm; few fine roots; many distinct reddish brown (5YR 4/4) clay films on faces of peds; very strongly acid; clear wavy boundary.
- Bt3—22 to 32 inches; brown (7.5YR 4/4) silty clay loam; moderate coarse subangular blocky structure; firm; few fine roots; many distinct reddish brown (5YR 4/4) clay films on faces of peds; common medium black (10YR 2/1) iron and manganese-oxide concretions; very strongly acid; clear wavy boundary.
- Bt4—32 to 72 inches; brown (7.5YR 4/4) silt loam; weak coarse subangular blocky structure; friable; common distinct reddish brown (5YR 4/4) clay films on faces of peds; 1 percent sand; strongly acid; gradual wavy boundary.
- 2BC—72 to 80 inches; brown (7.5YR 4/4) silt loam; weak coarse subangular blocky structure; friable; 22 percent sand; moderately acid.

Range in Characteristics

Depth to the base of the argillic horizon: 44 to 80 inches

Particle-size control section averages: 25 to 32 percent clay; 1 to 5 percent sand

Sand content: Less than 7 percent to a depth of 44 inches

Ap or A horizon:

Hue—10YR

Value—4

Chroma—2 or 3

Texture—typically silt loam; silty clay loam in some severely eroded pedons

Reaction—very strongly acid or strongly acid in unlimed areas

Bt horizon:

Hue—10YR or 7.5YR

Value—4 or 5

Chroma—4 to 6

Soil Survey of Pulaski County, Illinois

Texture—silt loam or silty clay loam
Reaction—very strongly acid or strongly acid

BC horizon (if it occurs):

Hue—10YR or 7.5YR
Value—4 or 5
Chroma—4 to 6
Texture—silt loam
Clay content—12 to 22 percent
Sand content—3 to 8 percent
Reaction—strongly acid to slightly acid

2BC horizon:

Hue—10YR or 7.5YR
Value—4 or 5
Chroma—4 to 6
Texture—silt loam
Clay content—12 to 22 percent
Sand content—15 to 30 percent
Reaction—strongly acid to slightly acid

Alvin Series

Taxonomic classification: Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs

Typical Pedon

Alvin fine sandy loam; in Massac County, Illinois; in a wooded area at an elevation of about 340 feet above mean sea level, 1,070 feet west of a north-south field lane and 20 feet south of the centerline of a east-west field lane in the SW1/4 SW1/4 NE1/4 SW1/4 of sec. 11, T. 14 S., R. 3 E.; USGS Mermet, IL topographic quadrangle; lat. 37 degrees 18 minutes 37 seconds N. and long. 88 degrees 51 minutes 07 seconds W.; UTM Zone 16, Easting 335884, Northing 4130908, NAD 83:

- A—0 to 2 inches; very dark grayish brown (10YR 3/2) fine sandy loam, grayish brown (10YR 5/2) dry; weak fine granular structure; friable; very strongly acid; abrupt smooth boundary.
- E—2 to 10 inches; 80 percent dark yellowish brown (10YR 4/4) and 20 percent yellowish brown (10YR 5/4) fine sandy loam; weak fine granular structure; friable; few very fine black (N 2/0) iron-manganese concretions; very strongly acid; clear smooth boundary.
- BE—10 to 16 inches; dark yellowish brown (10YR 4/4) very fine sandy loam; weak medium subangular blocky structure; friable; strongly acid; clear smooth boundary.
- Bt1—16 to 28 inches; brown (7.5YR 4/4) very fine sandy loam; moderate medium subangular blocky structure; friable; few faint reddish brown (5YR 4/4) clay films on faces of pedis; very strongly acid; gradual smooth boundary.
- Bt2—28 to 42 inches; brown (7.5YR 4/4) very fine sandy loam; weak medium subangular blocky structure; friable; few faint reddish brown (5YR 4/4) clay films on faces of pedis; very strongly acid; gradual smooth boundary.
- BC—42 to 58 inches; brown (7.5YR 4/4) loamy fine sand; weak coarse subangular blocky structure; friable; very strongly acid; clear smooth boundary.
- C—58 to 80 inches; brown (7.5YR 4/4) loamy fine sand; massive; friable; strongly acid.

Range in Characteristics

Depth to the base of the argillic horizon: 40 to more than 80 inches

Soil Survey of Pulaski County, Illinois

Ap or A horizon:

Hue—10YR

Value—3 or 4

Chroma—1 to 4

Texture—commonly very fine sandy loam, fine sandy loam, or sandy loam; less commonly loamy sand or loamy fine sand

E, EB, or BE horizon:

Hue—10YR or 7.5YR

Value—4 to 6

Chroma—2 to 4

Texture—very fine sandy loam, fine sandy loam, sandy loam, or loamy fine sand

Bt horizon:

Hue—10YR or 7.5YR

Value—4 to 6

Chroma—3 to 6

Texture—very fine sandy loam, fine sandy loam, loam, or sandy clay loam

BC or C horizon:

Hue—10YR or 7.5YR

Value—4 to 6

Chroma—3 to 6

Texture—fine sandy loam, loamy fine sand, very fine sand, or fine sand

Armiesburg Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Fluventic Hapludolls

Typical Pedon

Armiesburg silty clay loam; in Massac County, Illinois; in a cultivated field, at an elevation of about 325 feet above mean sea level, approximately 360 feet north of an east-west gravel road and 310 feet east of the center of a north-south gravel road in the NE1/4 SW1/4 NE1/4 SW1/4 of sec. 28, T. 16 S., R. 6 E.; USGS Paducah East, IL topographic quadrangle; lat. 37 degrees 05 minutes 27 seconds N. and long. 88 degrees 33 minutes 35 seconds W.; UTM Zone 16, Easting 361383, Northing 4106087, NAD 83:

Ap—0 to 6 inches; very dark grayish brown (10YR 3/2) silty clay loam, grayish brown (10YR 5/2) dry; weak fine granular structure; friable; neutral; abrupt smooth boundary.

A—6 to 15 inches; dark brown (10YR 3/3) silty clay loam, brown (10YR 5/3) dry; weak coarse subangular blocky structure; firm; many worm channels; slightly alkaline; gradual smooth boundary.

BA—15 to 30 inches; brown (10YR 4/3) silty clay loam; weak very coarse to medium subangular blocky structure; firm; common distinct dark grayish brown (10YR 4/2) organic coatings on faces of peds; few distinct very dark brown (10YR 2/2) and very dark grayish brown (10YR 3/2) clay bridging in root channels; slightly alkaline; diffuse smooth boundary.

Bw1—30 to 42 inches; brown (10YR 4/4) silty clay loam that has few sand grains; weak coarse to fine subangular blocky structure; firm; fine pores; few distinct dark grayish brown (10YR 4/2) organic coatings on faces of peds; few fine prominent black (N 2/0) iron-manganese concretions; few fine shiny particles, possibly mica; slightly alkaline; diffuse smooth boundary.

Bw2—42 to 67 inches; dark yellowish brown (10YR 4/4) silty clay loam that contains some fine sand; weak medium and fine subangular blocky structure; firm; fine

Soil Survey of Pulaski County, Illinois

pores in peds; few distinct dark grayish brown (10YR 4/2) wormcasts; organic coats and clay films in worm channels; fine shiny grains, possibly mica; few fine prominent black (N 2/0) iron-manganese concretions; slightly alkaline; gradual wavy boundary.

C—67 to 130 inches; dark yellowish brown (10YR 4/4) silt loam that contains some very fine sand; massive; friable; few distinct dark grayish brown (10YR 4/2) wormcasts; organic coats and clay films in worm channels; few fine prominent black (N 2/0) iron-manganese concretions: more shiny particles than horizons above, possibly mica; slightly alkaline.

Range in Characteristics

Thickness of the mollic epipedon: 10 to 20 inches

Depth to the base of diagnostic horizon: More than 38 inches

Ap or A horizon:

Hue—10YR

Value—2 or 3

Chroma—1 to 3

Texture—silt loam or silty clay loam

BA horizon:

Hue—10YR

Value—3 to 5

Chroma—3 or 4

Texture—silt loam or silty clay loam

Bw horizon:

Hue—10YR

Value—4 or 5

Chroma—3 or 4

Texture—silt loam, silty clay loam, or clay loam

C horizon:

Hue—10YR

Value—3 to 5

Chroma—3 or 4

Texture—silt loam, silty clay loam, or loam

Baxter Series

Taxonomic classification: Fine, mixed, semiactive, mesic Typic Paleudalfs

Typical Pedon

Baxter gravelly silt loam; in Union County, Illinois; in a hilly wooded area, at an elevation of about 428 feet above mean sea level, approximately $\frac{1}{2}$ mile south-southeast of Dongola, about 2,000 feet south of the center of sec. 25, T. 13 S., R. 1 W.; USGS Dongola, IL topographic quadrangle; lat. 37 degrees 21 minutes 03 seconds N. and long. 89 degrees 11 minutes 58 seconds W.; UTM Zone 16, Easting 305178, Northing 4136060, NAD 83:

A—0 to 2 inches; brown (10YR 4/3) gravelly silt loam, pale brown (10YR 6/3) dry; weak and moderate fine granular structure; friable; 30 percent rock fragments; moderately acid; clear smooth boundary.

E1—2 to 7 inches; pale brown (10YR 6/3) gravelly silt loam; weak fine granular structure; friable; 20 percent rock fragments; strongly acid; gradual smooth boundary.

E2—7 to 15 inches; light yellowish brown (10YR 6/4) gravelly silt loam; weak fine

Soil Survey of Pulaski County, Illinois

granular structure; very friable; 20 percent rock fragments; very strongly acid; clear wavy boundary.

- Bt1—15 to 22 inches; yellowish red (5YR 5/6) gravelly silty clay loam; moderate fine subangular blocky structure; firm; many prominent red (2.5YR 4/6) clay films on faces of peds; 34 percent rock fragments; very strongly acid; gradual wavy boundary.
- Bt2—22 to 35 inches; red (2.5YR 4/8) gravelly silty clay; moderate fine angular blocky structure; very firm; many distinct red (2.5YR 4/6) clay films on faces of peds; common medium distinct reddish yellow (5YR 6/6) masses of iron accumulation; 25 percent rock fragments; very strongly acid; gradual wavy boundary.
- Bt3—35 to 43 inches; red (2.5YR 4/8) gravelly silty clay; weak medium angular blocky structure; very firm; many distinct red (2.5YR 4/6) clay films on faces of peds; 15 percent rock fragments; very strongly acid; gradual wavy boundary.
- Bt4—43 to 57 inches; red (2.5YR 4/8) gravelly clay; moderate medium angular blocky structure; very firm; many distinct red (2.5YR 4/6) clay films on faces of peds; common medium distinct strong brown (7.5YR 5/6) masses of iron accumulation; few fine prominent white (7.5YR 8/1) iron depletions; 20 percent rock fragments; very strongly acid; gradual wavy boundary.
- Bt5—57 to 80 inches; red (2.5YR 4/8) very gravelly clay; moderate medium angular blocky structure; very firm; few distinct red (2.5YR 4/6) clay films on faces of peds; many medium prominent reddish yellow (7.5YR 6/6) masses of iron accumulation; 40 percent rock fragments; very strongly acid.

Range in Characteristics

Depth to bedrock: 60 to more than 120 inches

Content of rock fragments: 5 to 45 percent chert fragments in individual layers; average in the particle-size control section ranges from 15 to 35 percent

Depth to the base of the argillic horizon: 58 to more than 120 inches

Particle-size control section: Average of 35 percent clay, 5 to 19 percent sand, and 15 to 35 percent chert fragments

A or Ap horizon:

Hue—7.5YR or 10YR

Value—2 to 4 (4 to 6 dry)

Chroma—2 to 4

Texture—silt loam

Rock fragment content—15 to 35 percent

E horizon:

Hue—7.5YR or 10YR

Value—4 to 6 (5 to 7 dry)

Chroma—2 to 4

Texture—silt loam

Rock fragment content—15 to 75 percent

Bt horizon (upper part) and BA or BE horizon (if it occurs):

Hue—2.5YR to 10YR

Value—4 to 6

Chroma—4 to 6

Texture—silty clay loam

Rock fragment content—15 to 35 percent

Bt horizon (lower part):

Hue—10R to 2.5YR

Value—3 to 5

Chroma—4 to 8
Texture—clay or silty clay
Rock fragment content—15 to 45 percent

Beaucoup Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Fluvaquentic
Endoaquolls

Typical Pedon

Beaucoup silty clay loam; in Monroe County, Illinois; in a cultivated field, at an elevation of about 396 feet above mean sea level, approximately 2,120 feet west and 2,140 feet south of the northeast corner of sec. 17, T. 2 S., R. 11 W.; USGS Valmeyer, IL topographic quadrangle; lat. 38 degrees 21 minutes 53 seconds N. and long. 90 degrees 20 minutes 22 seconds W.; UTM Zone 15, Easting 732454, Northing 4249641, NAD 83:

- Ap—0 to 11 inches; very dark gray (10YR 3/1) silty clay loam, grayish brown (10YR 5/2) dry; moderate fine granular structure; friable; common fine roots; neutral; abrupt smooth boundary.
- AB—11 to 16 inches; very dark grayish brown (10YR 3/2) silty clay loam, grayish brown (10YR 5/2) dry; moderate fine angular blocky structure; friable; common fine roots; common fine distinct dark yellowish brown (10YR 4/4) masses of iron accumulation; neutral; clear smooth boundary.
- Bg1—16 to 24 inches; dark grayish brown (2.5Y 4/2) silty clay loam; moderate medium prismatic structure parting to moderate fine angular blocky; friable; few fine roots; few faint very dark grayish brown (2.5Y 3/2) organic coatings on faces of peds; common fine prominent reddish brown (5YR 4/4) masses of iron accumulation; slightly alkaline; clear smooth boundary.
- Bg2—24 to 35 inches; dark grayish brown (2.5Y 4/2) silty clay loam; moderate medium prismatic structure parting to moderate fine angular blocky; friable; few very fine roots; common faint very dark grayish brown (2.5Y 3/2) organic coatings on faces of peds; thin band of dark grayish brown (2.5Y 4/2) silt coatings, light brownish gray (2.5Y 6/2) dry, at a depth of 32 inches; common fine prominent dark red (2.5YR 3/6) masses of iron accumulation; slightly alkaline; clear smooth boundary.
- Bg3—35 to 46 inches; dark grayish brown (2.5Y 4/2) silty clay loam; moderate medium prismatic structure parting to moderate medium angular blocky; friable; few very fine roots; many faint very dark grayish brown (2.5Y 3/2) organic coatings on faces of peds; common medium prominent brown (7.5YR 4/4) and few fine prominent dark red (2.5YR 3/6) masses of iron accumulation; slightly alkaline; clear smooth boundary.
- BC—46 to 80 inches; stratified yellowish brown (10YR 5/6) and gray (10YR 5/1) silty clay loam; moderate medium prismatic structure; friable; common faint dark grayish brown (2.5Y 4/2) organic coatings on faces of peds; few medium prominent reddish brown (5YR 4/3) iron depletions; slightly alkaline.

Range in Characteristics

Thickness of the mollic epipedon: 10 to 18 inches

Soil reaction: Moderately acid to slightly alkaline throughout the particle-size control section

Ap or A horizon:

Hue—10YR or neutral
Value—2 or 3 (4 or 5 dry)

Soil Survey of Pulaski County, Illinois

Chroma—0 to 2
Texture—silty clay loam or silt loam

AB horizon:

Hue—10YR or neutral
Value—3
Chroma—0 to 2
Texture—silt clay loam or silt loam

Bg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral
Value—3 to 6
Chroma—0 to 2
Texture—silty clay loam

BC, BCg, C, and Cg horizons (if they occur):

Hue—10YR, 2.5Y, 5Y, or neutral
Value—4 to 6
Chroma—0 to 6
Texture—stratified silt loam, loam, very fine sandy loam, or silty clay loam

Belknap Series

Taxonomic classification: Coarse-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts

Typical Pedon

Belknap silt loam; in Wabash County, Illinois; at an elevation of about 430 feet above mean sea level, approximately 350 feet north of the center of the road on the west side of the stream, 1,000 feet east and 1,000 feet north of the center of sec. 33, T. 2 N., R. 12 W.; USGS Saint Francisville, IL-IN topographic quadrangle; lat. 38 degrees 33 minutes 52 seconds N. and long. 87 degrees 44 minutes 50.5 seconds W.; UTM Zone 16, Easting 434889, Northing 4268709, NAD 83:

Ap—0 to 7 inches; dark grayish brown (10YR 4/2) silt loam, light brownish gray (10YR 6/2) dry; weak fine and medium granular structure; friable; strongly acid; abrupt smooth boundary.

A—7 to 13 inches; dark grayish brown (10YR 4/2) silt loam; weak thin platy structure parting to weak fine granular; friable; slightly compact as a plow pan; few medium faint brown (10YR 5/3) and few fine prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; strongly acid; gradual smooth boundary.

Bg—13 to 27 inches; dark grayish brown (10YR 4/2), grayish brown (10YR 5/2), and brown (10YR 5/3) silt loam; weak medium granular structure with a tendency toward subangular blocky; friable; few medium faint light brownish gray (10YR 6/2) iron depletions and common fine distinct yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few iron and manganese concretions; strongly acid; gradual smooth boundary.

Cg1—27 to 59 inches; light brownish gray (10YR 6/2) silt loam; massive; friable; common fine prominent dark reddish brown (2.5YR 3/4) and yellowish brown (10YR 5/8) masses of iron accumulation in the matrix; many iron and manganese concretions increasing in number and size as depth increases; strongly acid; gradual smooth boundary.

Cg2—59 to 80 inches; dark gray (10YR 4/1) silt loam; massive; friable; common medium faint gray (10YR 6/1) iron depletions and few medium prominent brown (7.5YR 5/4) masses of iron accumulation in the matrix; many iron and manganese concretions; moderately acid.

Range in Characteristics

Depth to base of soil development: Typically 12 to 40 inches; ranging to 60 inches

Reaction: Strongly acid or very strongly acid in the particle-size control section

Ap or A horizon:

Hue—10YR

Value—typically 4 to 6 (6 or 7 dry); 3 in some uncultivated areas

Chroma—2 or 3

Texture—silt loam

Reaction—very strongly acid to moderately acid, except in limed areas

Bg or Bw horizon:

Hue—10YR or 2.5Y

Value—4 to 6

Chroma—2 to 4

Texture—silt loam to a depth of at least 40 inches; some pedons contain strata of loam or silty clay loam below a depth of 40 inches

Cg or C horizon:

Hue—10YR or 2.5Y

Value—4 to 6

Chroma—1 to 4

Texture—silt loam or silt to a depth of at least 40 inches; some pedons contain strata of loam or silty clay loam below a depth of 40 inches

Birds Series

Taxonomic classification: Fine-silty, mixed, superactive, nonacid, mesic Typic Fluvaquents

Typical Pedon

Birds silt loam; in Lawrence County, Illinois; on a nearly level slope in a cultivated field, at an elevation of about 415 feet above mean sea level, approximately 600 feet west and 50 feet north of the center of sec. 13, T. 3 N., R. 12 W.; Lawrenceville, IL topographic quadrangle; lat. 38 degrees 41 minutes 41 seconds N. and long. 87 degrees 41 minutes 38 seconds W.; UTM Zone 16, Easting 439655, Northing 4283134, NAD 83:

Ap—0 to 6 inches; dark grayish brown (10YR 4/2) silt loam, light brownish gray (10YR 6/2) dry; weak fine granular structure; friable; neutral; abrupt smooth boundary.

ACg—6 to 22 inches; gray (10YR 6/1) silt loam; weak fine granular structure; friable; common fine distinct dark yellowish brown (10YR 4/4) and brown (10YR 5/3) masses of iron accumulation in the matrix; few fine very dark grayish brown (10YR 3/2) masses of iron-manganese accumulation in the matrix; neutral; gradual smooth boundary.

Cg—22 to 60 inches; gray (10YR 6/1) silt loam; massive; friable; common medium and coarse distinct dark yellowish brown (10YR 4/4), prominent light olive brown (2.5Y 5/4), and faint grayish brown (10YR 5/2) masses of iron-manganese accumulation in the matrix; few fine brown (10YR 5/3) iron-manganese concretions throughout; slightly alkaline.

Range in Characteristics

Particle-size control section: Average of between 18 and 27 percent clay and less than 15 percent fine or coarser sand

Reaction: Strongly acid to slightly alkaline to a depth of more than 40 inches; reaction is not strongly acid in all parts within this depth

Soil Survey of Pulaski County, Illinois

Ap, A, or ACg horizon:

Hue—10YR, 2.5Y, or 5Y
Value—4 to 6 (6 or 7 dry)
Chroma—1 or 2
Texture—silt loam

Cg horizon:

Hue—10YR, 2.5Y, or 5Y
Value—3 to 7
Chroma—1 or 2
Texture—silt loam; some pedons contain strata of silty clay loam, clay loam, loam, or sandy loam below a depth of 40 inches

Bonnie Series

Taxonomic classification: Fine-silty, mixed, active, acid, mesic Typic Fluvaquents

Typical Pedon

Bonnie silt loam; in Franklin County, Illinois; in a cultivated field, at an elevation of about 419 feet above mean sea level, approximately 2,660 feet north and 1,920 feet east of the southwest corner of sec. 21, T. 5 S., R. 4 E.; USGS Ewing, IL topographic quadrangle; lat. 38 degrees 04 minutes 32 seconds N. and long. 88 degrees 46 minutes 17 seconds W.; UTM Zone 16, Easting 344630, Northing 4215680, NAD 83:

Ap1—0 to 5 inches; brown (10YR 5/3) silt loam; weak fine granular structure; friable; common fine and medium roots throughout; common fine rounded soft masses of iron-manganese; slightly acid; abrupt smooth boundary.

Ap2—5 to 10 inches; light brownish gray (10YR 6/2) and dark grayish brown (10YR 4/2) silt loam; weak medium angular blocky structure parting to weak medium platy; friable; common fine and medium roots throughout; common fine and medium faint brown (10YR 4/3) masses of iron accumulation; common fine rounded soft masses of iron-manganese; moderately acid; abrupt smooth boundary.

Cg1—10 to 27 inches; gray (10YR 6/1) and light gray (10YR 7/1) silt loam; massive; friable; few very fine roots throughout; common fine and medium prominent yellowish brown (10YR 5/4 and 5/6) and common medium faint grayish brown (10YR 5/2) iron depletions; common fine rounded soft masses of iron-manganese; very strongly acid; clear smooth boundary.

Cg2—27 to 80 inches; gray (10YR 6/1) silt loam; massive; friable; common fine and medium prominent yellowish brown (10YR 5/4 and 5/6) masses of iron accumulation; common fine rounded soft masses of iron-manganese; very strongly acid.

Range in Characteristics

Particle-size control section averages: 18 to 27 percent clay and less than 10 percent sand

Reaction: Strongly acid or very strongly acid at a depth of 10 to 40 inches; very strongly acid to slightly alkaline below a depth of 40 inches

A or Ap horizon:

Hue—10YR or 2.5Y
Value—4 to 6
Chroma—1 to 3
Texture—silt loam

Cg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—5 to 7

Chroma—0 to 2

Texture—commonly silt loam and less commonly silty clay loam below a depth of 40 inches

Cape Series

Taxonomic classification: Fine, smectitic, acid, mesic Vertic Endoaquepts

Typical Pedon

Cape silty clay loam; in Saline County, Illinois; in a nearly level or depressional area in a cultivated field, at an elevation of about 375 feet above mean sea level, approximately 2 miles southwest of Carrier Mills, about 1,290 feet north and 660 feet west of the center of sec. 10, T. 10 S., R. 5 E.; USGS Carrier Mills, IL topographic quadrangle; lat. 37 degrees 40 minutes 08 seconds N. and long. 88 degrees 38 minutes 45 seconds W.; UTM Zone 16, Easting 354838, Northing 4170366, NAD 83:

Ap—0 to 10 inches; dark gray (10YR 4/1) silty clay loam; weak medium angular blocky structure; very firm; neutral; abrupt smooth boundary.

Bg1—10 to 22 inches; dark gray (10YR 4/1) silty clay loam; moderate coarse prismatic structure parting to weak medium angular blocky; very firm; common medium distinct brown (10YR 4/3) masses of iron accumulation; common prominent threadlike iron-manganese masses; strongly acid; clear smooth boundary.

Bg2—22 to 28 inches; gray (10YR 5/1) silty clay; weak coarse prismatic structure parting to weak medium angular blocky; very firm; common medium distinct brown (10YR 4/3) masses of iron accumulation; prominent threadlike iron-manganese masses on surfaces along root channels; strongly acid; clear smooth boundary.

Bg3—28 to 35 inches; gray (10YR 5/1 and 6/1) and dark gray (10YR 4/1) silty clay; weak coarse prismatic structure parting to weak medium and coarse angular blocky; very firm; common medium prominent dark reddish brown (5YR 3/3) masses of iron accumulation; few prominent threadlike iron-manganese masses on surfaces along root channels; strongly acid; clear smooth boundary.

Bg4—35 to 45 inches; gray (10YR 5/1) and grayish brown (10YR 5/2) silty clay; weak coarse angular blocky structure; firm; common medium distinct pale brown (10YR 6/3) and faint dark grayish brown (10YR 4/2) masses of iron accumulation; common prominent threadlike iron-manganese masses; strongly acid; gradual smooth boundary.

Cg—45 to 80 inches; gray (10YR 6/1), light gray (10YR 7/1), and grayish brown (10YR 5/2) silty clay loam; massive; firm; common medium distinct pale brown (10YR 6/3) masses of iron accumulation; common prominent threadlike iron-manganese masses on surfaces along root channels; strongly acid.

Range in Characteristics

Depth to the base of the cambic horizon: 40 to more than 60 inches

Particle-size control section: Average of 40 to 55 percent clay

Ap or A horizon:

Hue—10YR or 2.5Y

Value—4 or 5 (5 or 6 dry)

Chroma—1 or 2

Texture—silty clay loam, silty clay, or clay; silt loam in the overwash phase

Bg horizon:

Hue—10YR, 2.5Y, or neutral

Value—4 to 6 (5 to 7 dry)

Chroma—0 to 2

Texture—silty clay or clay; silty clay loam in upper part of some pedons

Cg horizon:

Hue—10YR, 2.5Y, or neutral

Value—4 to 7

Chroma—0 to 2

Texture—silty clay loam, silty clay, or clay

Clarksville Series

Taxonomic classification: Loamy-skeletal, siliceous, semiactive, mesic Typic Paleudults

Typical Pedon

Clarksville gravelly silt loam; in Hardin County, Illinois; in a steep or very steep wooded area in the uplands, at an elevation of about 530 feet above mean sea level, approximately 1 mile west of Hicks Dome, about 825 feet south and 550 feet west of the center of sec. 25, T. 11 S., R. 7 E.; USGS Herod, IL topographic quadrangle; lat. 37 degrees 31 minutes 53 seconds N. and long. 88 degrees 23 minutes 18 seconds W.; UTM Zone 16, Easting 377341, Northing 4154719, NAD 83:

- Oi—0 to 0.5 inch; very dark brown (10YR 2/2) organic and silty material; densely matted roots; strongly acid; abrupt smooth boundary.
- A—0.5 to 1 inch; very dark brown (10YR 2/2) gravelly silt loam; weak medium crumb structure; friable; 15 percent chert gravel; very strongly acid; abrupt smooth boundary.
- E1—1 to 5 inches; 60 percent mixed dark grayish brown (10YR 4/2) and 40 percent brown (10YR 5/3) gravelly silt loam; massive; friable; few fine pores; 20 percent chert gravel; very strongly acid; clear smooth boundary.
- E2—5 to 10 inches; yellowish brown (10YR 5/4) very gravelly silt loam; weak very fine subangular blocky structure in interstices between chert fragments; friable; root or worm channels coated with grayish brown (10YR 5/2) material; common fine pores; 35 percent chert gravel; very strongly acid; clear smooth boundary.
- E3—10 to 16 inches; yellowish brown (10YR 5/4) very gravelly silt loam, very pale brown (10YR 7/3) dry; weak very fine to fine subangular blocky structure in interstices between chert fragments; friable; few brown (7.5YR 4/4) coatings of silty clay on chert fragments; yellowish red (5YR 4/8) material on interior of chert fragments; 45 percent chert gravel; very strongly acid; clear wavy boundary.
- 2E/B—16 to 26 inches; yellowish brown (10YR 5/4) very gravelly silt loam and yellowish red (5YR 4/8) gravelly silty clay loam and gravelly silty clay, light gray (10YR 7/2) and very pale brown (10YR 8/2) matrix when dry; moderate fine and very fine angular blocky structure in places where rock interstices are large enough to allow structure; very firm; silty part is friable when crushed; strong brown (7.5YR 5/6) and yellowish red (5YR 5/6) clay films when dry; 45 percent chert gravel; very strongly acid; gradual boundary.
- 2Bt1—26 to 36 inches; yellowish red (5YR 5/6) very gravelly silty clay and reddish brown (5YR 5/4) very gravelly silt loam, very pale brown (10YR 7/3 and 7/4) dry in matrix; common fine distinct pinkish gray (7.5YR 6/2) mottles in interstices of fractured cherty rock; medium and strong fine and very fine angular blocky structure in interstices large enough to allow structure; very firm; many prominent reddish brown (2.5YR 4/4) and dark red (2.5YR 3/6) clay films on faces of peds, yellowish red (5YR 4/6 and 5/6) dry; 50 percent chert gravel; strongly acid; gradual smooth boundary.
- 2Bt2—36 to 80 inches; yellowish red (5YR 5/6) and strong brown (7.5YR 5/6) very gravelly silty clay in fracture planes, yellowish red (5YR 5/6) and reddish yellow

Soil Survey of Pulaski County, Illinois

(7.5YR 7/6) dry in matrix; medium and strong fine and very fine angular blocky structure in interstices large enough to allow structure; alternate friable to very firm layers; reddish brown (2.5YR 4/4, dry) clay films on faces of pedis and chert fragments; 60 percent chert gravel and cobbles; strongly acid.

Range in Characteristics

Depth to bedrock: More than 80 inches

Depth to the top of the argillic horizon: 7 to 40 inches

Particle-size control section: Average of 18 to 35 percent clay, 5 to 20 percent sand, and 35 to 70 percent rock fragments

A horizon:

Hue—10YR

Value—2 to 6

Chroma—1 to 4

Fine-earth texture—silt loam or silt

Rock fragments—20 to 60 percent gravel and cobbles

E horizon:

Hue—10YR

Value—4 to 7

Chroma—2 to 6

Fine-earth texture—silt loam, silt, or loam

Rock fragments—35 to 60 percent gravel and cobbles

2E/B horizon:

Hue—2.5YR to 10YR

Value—4 to 6

Chroma—4 to 6

Fine-earth texture—silt loam, silty clay loam, or silty clay

Rock fragments—35 to 80 percent gravel and cobbles

2Bt horizon:

Hue—2.5YR to 10YR

Value—3 to 6

Chroma—4 to 6

Fine-earth texture—silty clay or clay

Rock fragments—35 to 80 percent gravel and cobbles

Colp Series

Taxonomic classification: Fine, smectitic, mesic Aquertic Chromic Hapludalfs

Typical Pedon

Colp silt loam; in Monroe County, Illinois; in a cultivated field, at an elevation of about 420 feet above mean sea level, approximately 4 miles south and 2 miles east of Hecker, about 1,095 feet east and 110 feet north of the center of sec. 27, T. 3 S., R. 8 W.; USGS Red Bud, IL topographic quadrangle; lat. 38 degrees 14 minutes 38 seconds N. and long. 89 degrees 58 minutes 02 seconds W.; UTM Zone 16, Easting 240324, Northing 4237040, NAD 83:

Ap—0 to 8 inches; brown (10YR 4/3) silt loam, pale brown (10YR 6/3) dry; moderate fine granular structure; friable; common very fine roots; few fine continuous tubular pores; few fine and medium rounded black (5YR 2.5/1) iron-manganese nodules with sharp boundaries; 21 percent clay; neutral; abrupt smooth boundary.

E—8 to 12 inches; light brownish gray (10YR 6/2) silt loam, very pale brown (10YR 8/2) dry; weak fine subangular blocky structure parting to moderate fine granular;

Soil Survey of Pulaski County, Illinois

- friable; few very fine roots; few very fine continuous tubular pores; few fine prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few fine and medium rounded black (5YR 2.5/1) iron-manganese nodules with sharp boundaries; 19 percent clay; moderately acid; abrupt smooth boundary.
- 2Bt1—12 to 17 inches; yellowish brown (10YR 5/4) silty clay; weak fine prismatic structure parting to moderate fine angular blocky; firm; few very fine roots; common prominent very pale brown (10YR 8/2, dry) clay depletions on faces of peds; many faint brown (10YR 5/3) clay films on faces of peds; few fine distinct yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few fine and medium rounded black (5YR 2.5/1) iron-manganese nodules with sharp boundaries; 46 percent clay; very strongly acid; clear smooth boundary.
- 2Bt2—17 to 23 inches; yellowish brown (10YR 5/4) silty clay; moderate medium prismatic structure parting to moderate medium angular blocky; very firm; few very fine roots; many faint brown (10YR 5/3) clay films on faces of peds; few fine distinct light brownish gray (10YR 6/2) iron depletions; common fine and medium rounded black (5YR 2.5/1) iron-manganese nodules with sharp boundaries; 48 percent clay; very strongly acid; gradual smooth boundary.
- 2Bt3—23 to 30 inches; yellowish brown (10YR 5/4) silty clay; moderate medium prismatic structure parting to moderate medium angular blocky; very firm; few very fine roots; common faint brown (10YR 5/3) clay films on faces of peds; common fine distinct light brownish gray (10YR 6/2) iron depletions and few fine distinct strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common fine and medium rounded black (5YR 2.5/1) iron-manganese nodules with sharp boundaries; 47 percent clay; very strongly acid; gradual smooth boundary.
- 2Bt4—30 to 37 inches; yellowish brown (10YR 5/4) clay; moderate medium prismatic structure parting to moderate medium angular blocky; very firm; few very fine roots; common faint brown (10YR 5/3) clay films on faces of peds; common fine distinct light brownish gray (10YR 6/2) iron depletions and common fine distinct strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common fine and medium rounded dark reddish brown (5YR 2.5/2) iron-manganese nodules with clear yellowish red (5YR 4/6) boundaries; 61 percent clay; very strongly acid; clear smooth boundary.
- 2Bt5—37 to 48 inches; brown (10YR 5/3) silty clay loam; moderate medium prismatic structure parting to moderate medium angular blocky; firm; few very fine roots; common distinct grayish brown (10YR 5/2) clay films on faces of peds; few prominent black (N 2.5/0) iron-manganese coatings lining root channels; common medium faint light brownish gray (10YR 6/2) iron depletions and many medium prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common fine and medium rounded dark reddish brown (5YR 2.5/2) iron-manganese nodules with clear yellowish red (5YR 4/6) boundaries; 37 percent clay; very strongly acid; abrupt smooth boundary.
- 2Btg1—48 to 55 inches; light brownish gray (2.5Y 6/2) silty clay loam; weak medium prismatic structure parting to moderate medium angular blocky; friable; few very fine roots; many distinct grayish brown (10YR 5/2) clay films on faces of peds and lining root channels; few prominent black (N 2.5/0) iron-manganese coatings lining root channels; common fine and medium prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common fine and medium irregular black (5YR 2.5/1) iron-manganese nodules with clear yellowish red (5YR 4/6) boundaries on vertical faces of peds; 36 percent clay; moderately acid; abrupt smooth boundary.
- 2Btg2—55 to 70 inches; light brownish gray (2.5Y 6/2) silty clay; weak medium prismatic structure parting to moderate medium angular blocky; firm; few very fine roots; many distinct grayish brown (10YR 5/2) clay films on faces of peds and lining root channels; common fine and medium prominent strong brown (7.5YR

Soil Survey of Pulaski County, Illinois

5/6) masses of iron accumulation in the matrix; many fine and medium irregular black (5YR 2.5/1) iron-manganese nodules with clear yellowish red (5YR 4/6) boundaries on vertical faces of peds; 43 percent clay; moderately acid; clear smooth boundary.

2BCtkg—70 to 80 inches; grayish brown (2.5Y 5/2) silty clay; weak medium prismatic structure parting to moderate fine and medium angular blocky; very firm; common distinct dark grayish brown (2.5Y 4/2) clay films on faces of peds; common prominent reddish brown (5YR 4/4) iron-manganese coatings lining channels and pores; few fine and medium irregular black (5YR 2.5/1) iron-manganese nodules with clear yellowish red (5YR 4/6) boundaries; common fine and medium irregular white (10YR 8/1) carbonate nodules with sharp boundaries; slightly effervescent; slightly alkaline.

Range in Characteristics

Depth to the base of the argillic horizon: 50 to more than 80 inches

Thickness of loess or other silty material: 0 to 20 inches

Particle-size control section: Average of between 35 and 50 percent clay and less than 15 percent sand; some subhorizons contain 50 to about 60 percent clay

Depth to carbonates: Typically more than 50 inches but as shallow as 42 inches in some pedons

Note: Some pedons have a thin BE or Bt horizon of silt loam or silty clay loam that formed in the upper silty material

Ap or A horizon:

Hue—10YR

Value—typically 4 or 5; 3 in some thin A horizons

Chroma—1 to 4

Texture—typically silt loam; silty clay loam in some eroded pedons

E horizon (if it occurs):

Hue—10YR

Value—5 or 6 (6 to 8 dry)

Chroma—2 to 4

Texture—silt loam

2Bt horizon:

Hue—commonly 10YR; less commonly 7.5YR or 2.5Y

Value—4 to 6

Chroma—3 to 6

Texture—dominantly silty clay loam or silty clay; some subhorizons are clay in some pedons

2Btg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 or 2

Texture—dominantly silty clay loam or silty clay; some subhorizons are clay in some pedons

2BCtkg horizon or 2BCg horizon (if it occurs):

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 or 2

Texture—dominantly silty clay loam or silty clay; some subhorizons are clay in some pedons; other pedons contain thin strata of silt loam, loam, or fine sandy loam in the lower part

2C or 2Cg horizon (if it occurs):

Hue—7.5YR, 10YR, or 2.5Y

Value—4 to 6

Chroma—1 to 8

Texture—silty clay loam or silty clay

Darwin Series

Taxonomic classification: Fine, smectitic, mesic Fluvaquentic Vertic Endoaquolls

Typical Pedon

Darwin silty clay; in Lawrence County, Illinois; in a nearly level cultivated field, at an elevation of about 433 feet above mean sea level, approximately 2.5 miles west of Russellville; 2,320 feet north and 110 feet east of the center of sec. 6, T. 4 N., R. 10 W.; USGS Russellville, IL topographic quadrangle; lat. 38 degrees 49 minutes 14.5 seconds N. and long. 87 degrees 33 minutes 59.5 seconds W.; UTM 16, Easting 450817, Northing 4297036, NAD 83:

Ap—0 to 7 inches; very dark gray (10YR 3/1) silty clay, dark gray (10YR 4/1) dry; weak very fine granular structure in the upper part and moderate fine and medium angular blocky structure in the lower part; very firm; slightly acid; abrupt smooth boundary.

A—7 to 14 inches; very dark gray (N 3/0) silty clay, dark gray (10YR 4/1) dry; weak medium prismatic structure parting to moderate medium angular blocky; firm; few fine prominent dark yellowish brown (10YR 3/4) masses of iron and manganese accumulation in the matrix; neutral; gradual smooth boundary.

Bg1—14 to 24 inches; dark gray (5Y 4/1) silty clay; weak medium prismatic structure parting to moderate medium and coarse angular blocky; firm; common fine and medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; neutral; gradual smooth boundary.

Bg2—24 to 33 inches; dark gray (5Y 4/1) silty clay; weak coarse prismatic structure parting to moderate medium angular blocky; firm; common fine and medium prominent yellowish brown (10YR 5/4 and 5/6) masses of iron accumulation in the matrix; few fine dark iron and manganese concretions throughout; neutral; gradual smooth boundary.

Bg3—33 to 46 inches; gray (5Y 5/1) silty clay; weak coarse prismatic structure parting to weak medium angular blocky; firm; few medium carbonate concretions increasing in number in the lower part of the horizon; common fine and medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few dark iron and manganese concretions throughout; slightly alkaline; abrupt wavy boundary.

BCg—46 to 56 inches; gray (5Y 5/1) silty clay loam; weak medium and coarse angular blocky structure; very firm; many fine prominent brown (7.5YR 4/4) and strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; slightly alkaline; gradual smooth boundary.

Cg—56 to 80 inches; gray (5Y 5/1) silty clay loam; massive; firm; many fine and medium prominent yellowish brown (10YR 5/6 and 5/8) masses of iron accumulation in the matrix; slightly alkaline.

Range in Characteristics

Depth to the base of the cambic horizon: 40 to 60 inches

Thickness of the mollic epipedon: 10 to 24 inches

Particle-size control section: Average of between 45 and 60 percent clay

Series control section: Average of less than 5 percent sand

Soil Survey of Pulaski County, Illinois

Ap or A horizon:

Hue—10YR, 2.5Y or neutral

Value—2 or 3

Chroma—0 to 2

Texture—typically silty clay; silty clay loam or clay in some pedons

Clay content—35 to 60 percent

Reaction—slightly acid to slightly alkaline

Bg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—3 to 6

Chroma—0 to 2

Texture—typically silty clay; some pedons contain horizons of clay

Clay content—45 to 55 percent

Reaction—slightly acid to slightly alkaline; some pedons contain carbonates in the lower part

BCg or Cg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 6

Chroma—0 to 2

Texture—silty clay loam, silty clay, or clay

Clay content—27 to 60 percent

Reaction—neutral to moderately alkaline; some pedons contain carbonates

Dupo Series

Taxonomic classification: Coarse-silty over clayey, mixed over smectitic, superactive, nonacid, mesic Aquic Udifluvents

Typical Pedon

Dupo silt loam; in Randolph County, Illinois; on a nearly level flood plain in a cultivated field, at an elevation of about 390 feet above mean sea level, approximately 2½ miles west of Modoc; Illinois State Plane Coordinates 506,150 feet north and 526,600 feet east (Illinois West Zone); T. 5 S., R. 9 W.; USGS Prairie Du Rocher, IL-MO topographic quadrangle; lat. 38 degrees 03 minutes 20 seconds N. and long. 90 degrees 04 minutes 28 seconds W.; UTM Zone 15, Easting 756679, Northing 4216026, NAD 83:

Ap—0 to 9 inches; brown (10YR 4/3) silt loam, pale brown (10YR 6/3) dry; weak fine granular structure; very friable; many very fine and fine roots; few very fine continuous tubular pores; few fine rounded strong brown (7.5YR 5/6) masses of iron-manganese accumulation; slightly alkaline; abrupt smooth boundary.

C1—9 to 17 inches; brown (10YR 5/3) silt loam; massive; very friable; common very fine and fine roots; few very fine continuous tubular pores; common fine faint grayish brown (10YR 5/2) iron depletions and common fine faint yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; few fine irregular strong brown (7.5YR 5/6) masses of iron-manganese accumulation; slightly alkaline; clear smooth boundary.

C2—17 to 25 inches; brown (10YR 5/3) silt loam; massive; very friable; common very fine and fine roots; common very fine and fine continuous tubular pores; common very dark grayish brown (10YR 3/2) wormcasts; many medium faint grayish brown (10YR 5/2) iron depletions and many medium faint dark yellowish brown (10YR 4/4) masses of iron accumulation in the matrix; few fine irregular strong brown

Soil Survey of Pulaski County, Illinois

- (7.5YR 5/6) masses of iron-manganese accumulation; neutral; abrupt smooth boundary.
- 2Ab1—25 to 39 inches; very dark gray (10YR 3/1) silty clay; moderate medium prismatic structure parting to strong fine angular blocky; very firm; few very fine and fine roots; common fine constricted tubular pores; common distinct dark yellowish brown (10YR 4/4) clay depletions on vertical faces of prisms; common fine distinct dark yellowish brown (10YR 4/4) and common medium prominent yellowish red (5YR 4/6) masses of iron accumulation in the matrix; neutral; clear smooth boundary.
- 2Ab2—39 to 59 inches; very dark gray (10YR 3/1) silty clay; moderate coarse prismatic structure parting to moderate medium angular blocky; very firm; few very fine and fine roots; few fine and medium constricted tubular pores; few faint dark yellowish brown (10YR 4/4) clay depletions on vertical faces of prisms; common faint very dark gray (10YR 3/1) pressure faces on faces of peds; common fine distinct dark yellowish brown (10YR 4/4) and few medium prominent strong brown (7.5YR 4/6) masses of iron accumulation in the matrix; neutral; gradual smooth boundary.
- 2Bgb—59 to 75 inches; dark gray (10YR 4/1) silty clay; weak coarse prismatic structure; very firm; few very fine and fine roots; common distinct dark gray (10YR 4/1) pressure faces on faces of peds; common fine distinct dark yellowish brown (10YR 4/4) masses of iron accumulation in the matrix; slightly alkaline; gradual smooth boundary.
- 2C_{ssg}—75 to 80 inches; gray (2.5Y 5/1) clay; massive; very firm; common shiny dark gray (2.5Y 4/1) nonintersecting slickensides; common fine medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; neutral.

Range in Characteristics

Depth to a buried soil: 20 to 40 inches

Particle-size control section: Average of 10 to 18 percent clay in the silty alluvium, 35 to 55 percent clay in the buried horizons, and less than 10 percent sand throughout the profile

Ap or A horizon:

Hue—10YR

Value—typically 4 or 5; strata with value of 3 occur in some undisturbed pedons

Chroma—1 to 3

Texture—silt loam or silt; horizon is stratified in many undisturbed pedons

C horizon:

Hue—10YR

Value—4 to 6

Chroma—1 to 3

Texture—dominantly silt loam; horizon is stratified with thin lenses of other textures in some pedons

2Ab horizon:

Hue—10YR or neutral

Value—2 to 4

Chroma—0 to 2

Texture—silty clay, clay, or silty clay loam

2Bgb, 2C_{ssg}, and 2Cg horizons (if they occur):

Hue—10YR or yellower

Value—3 to 6

Chroma—1 or 2

Texture—silty clay, clay, or silty clay loam

Ginat Series

Taxonomic classification: Fine-silty, mixed, active, mesic Typic Endoaqualfs

Typical Pedon

Ginat silt loam; in Pope County, Illinois; in a cultivated field, at an elevation of about 332 feet above mean sea level, approximately 300 feet north and 120 feet east of the southwest corner of the NE1/4 SE1/4 of sec. 3, T. 14 S., R. 5 E.; USGS Reevesville, IL topographic quadrangle; lat. 37 degrees 19 minutes 32 seconds N. and long. 88 degrees 38 minutes 27 seconds W.; UTM Zone 16, Easting 354620, Northing 4132245, NAD 83:

- Ap—0 to 6 inches; brown (10YR 5/3) silt loam, light gray (10YR 7/2) dry; moderate medium and coarse granular structure; friable; common fine and very fine black (N 2/0), strong brown (7.5YR 5/8), and dark brown (7.5YR 3/2) iron-manganese concretions; very strongly acid; clear smooth boundary.
- E1—6 to 11 inches; pale brown (10YR 6/3) silt loam; weak medium platy structure; firm to friable; few fine faint light gray (10YR 7/1) iron depletions; many fine and very fine black (N 2/0), dark brown (7.5YR 3/2), and brown (7.5YR 4/4) iron-manganese concretions; vesicular pores; very strongly acid; clear smooth boundary.
- E2—11 to 19 inches; light gray (10YR 7/2) silt loam; weak medium subangular blocky structure; friable; common medium distinct yellowish brown (10YR 5/4) and few fine faint pale brown (10YR 6/3) masses of iron accumulation; many fine and very fine black (N 2/0), strong brown (7.5YR 5/8), and dark brown (7.5YR 3/2) iron-manganese concretions; vesicular pores; very strongly acid; clear smooth boundary.
- BEg—19 to 24 inches; light brownish gray (10YR 6/2) silty clay loam; weak medium subangular blocky structure; friable to firm; few fine prominent yellowish brown (10YR 5/8) and few fine faint brown (10YR 5/3) masses of iron accumulation; many fine black (N 2/0) and strong brown (7.5YR 5/8) iron-manganese concretions; vesicular pores; very strongly acid; clear smooth boundary.
- Btg—24 to 34 inches; light brownish gray (2.5Y 6/2) silty clay loam; weak medium prismatic structure parting to weak medium subangular blocky; firm; few faint grayish brown (2.5Y 5/2) clay films on faces of peds; common fine faint light gray (2.5Y 7/2) iron depletions; few fine yellowish red (5YR 5/6) and many fine black (N 2/0), brown (7.5YR 4/4), and strong brown (7.5YR 5/8) iron-manganese concretions; very strongly acid; clear smooth boundary.
- Btxg1—34 to 43 inches; grayish brown (2.5Y 5/2) silty clay loam; weak medium prismatic structure parting to moderate fine and medium subangular blocky; very firm; few faint grayish brown (2.5Y 5/2) clay films and few faint light brownish gray (10YR 6/2) silt coats on faces of peds; few fine distinct dark yellowish brown (10YR 4/4) masses of iron accumulation; common fine black (N 2/0) and strong brown (7.5YR 5/6) iron-manganese concretions; brittle; very strongly acid; clear smooth boundary.
- Btxg2—43 to 49 inches; grayish brown (2.5Y 5/2) silty clay loam; moderate fine subangular blocky structure; very firm; few faint grayish brown (2.5Y 5/2) clay films on faces of peds; common fine prominent light olive brown (2.5Y 5/6) and common fine distinct dark yellowish brown (10YR 4/4) masses of iron accumulation; few fine faint light gray (10YR 7/2) iron depletions; brittle; very strongly acid; clear smooth boundary.
- B'tg—49 to 55 inches; grayish brown (10YR 5/2) silty clay loam; weak fine subangular blocky structure; firm; few faint grayish brown (10YR 5/2) clay films on faces of peds; common fine faint light gray (10YR 7/2) iron depletions and few medium

Soil Survey of Pulaski County, Illinois

distinct dark yellowish brown (10YR 4/4) masses of iron accumulation; few fine black (N 2/0) iron-manganese concretions; very strongly acid; clear smooth boundary.

2Bt1—55 to 65 inches; dark yellowish brown (10YR 4/4) silty clay loam; weak coarse subangular blocky structure; firm; few prominent gray (10YR 6/1) and brown (7.5YR 5/2) clay films on faces of peds; many fine distinct and common medium distinct grayish brown (10YR 5/2) iron depletions; few fine distinct black (10YR 2/1) iron-manganese films on ped surfaces; very strongly acid; clear smooth boundary.

2Bt2—65 to 80 inches; dark yellowish brown (10YR 4/4) silt loam; weak coarse subangular blocky structure; friable; few distinct gray (10YR 6/1) clay films in root and worm channels and pores; few fine distinct yellowish brown (10YR 5/6) masses of iron accumulation; common medium distinct light brownish gray (10YR 6/2) iron depletions; few very fine distinct black (10YR 2/1) masses of iron-manganese; strongly acid.

Range in Characteristics

Depth to the base of the argillic horizon: More than 60 inches

Ap or A horizon:

Hue—10YR

Value—4 or 5

Chroma—1 to 3

Texture—silt loam

Reaction—strongly acid or very strongly acid; ranging to neutral in limed areas

E horizon:

Hue—10YR

Value—5 to 7

Chroma—1 to 3

Texture—silt loam

Reaction—strongly acid or very strongly acid; ranging to neutral in limed areas

BEg and Btg horizons:

Hue—10YR or 2.5Y

Value—5 to 7

Chroma—1 or 2

Texture—silt loam or silty clay loam

Reaction—very strongly acid to moderately acid

Btxg or B'tg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—5 to 7

Chroma—1 or 2

Texture—silt loam or silty clay loam

Reaction—very strongly acid or strongly acid

2Bt or 2Btg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—4 to 7

Chroma—1 to 4

Texture—commonly silt loam or silty clay loam; less commonly silty clay, clay loam, or loam

Clay content—21 to 42 percent

Sand content—5 to 25 percent

Rock fragments—0 to 5 percent pebbles

Reaction—strongly acid to slightly alkaline

The Ginat soils in this survey area are considered a taxadjunct to the series because they have fragic soil properties in the lower part of the control section, which are not defined for the series. This difference, however, does not significantly affect the use and management of the soils. The taxadjunct classifies as fine-silty, mixed, active, mesic Fragic Epiaqualfs.

Gorham Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls

Typical Pedon

Gorham silty clay loam; in Jackson County, Illinois; on a nearly level flood plain, in a cultivated field, at an elevation of about 360 feet above mean sea level, approximately 1 mile northwest of Gorham, about 1,400 feet east and 1,800 feet north of the southwest corner of sec. 24, T. 9 S., R. 4 W.; USGS Altenburg, MO-IL topographic quadrangle; lat. 37 degrees 43 minutes 37 seconds N. and long. 89 degrees 30 minutes 12 seconds W.; UTM Zone 16, Easting 279375, Northing 4178476, NAD 83:

Ap—0 to 7 inches; very dark gray (10YR 3/1) silty clay loam, grayish brown (10YR 5/2) dry; moderate fine angular and medium angular blocky structure parting to weak fine granular; firm; common very fine roots; neutral; abrupt smooth boundary.

A—7 to 14 inches; black (10YR 2/1) silty clay loam, dark gray (10YR 4/1) dry; moderate fine angular and medium angular blocky structure; very firm; common very fine roots; common faint black (10YR 2/1) organic coatings on faces of peds; few fine irregular brown (7.5YR 4/4) masses of iron-manganese accumulation with sharp boundaries; neutral; clear smooth boundary.

Btg1—14 to 26 inches; dark gray (10YR 4/1) silty clay loam; weak medium prismatic structure parting to moderate fine angular and medium angular blocky; very firm; common very fine roots; common faint very dark gray (10YR 3/1) organo-clay films on faces of peds; common fine distinct dark yellowish brown (10YR 4/4) masses of iron accumulation in the matrix; common fine irregular brown (7.5YR 4/4) masses of iron-manganese accumulation with clear boundaries; neutral; gradual smooth boundary.

Btg2—26 to 36 inches; dark grayish brown (2.5Y 4/2) silty clay loam; moderate medium prismatic structure parting to moderate medium angular blocky; very firm; few very fine roots; many distinct very dark grayish brown (10YR 3/2) organo-clay films on faces of peds; many fine distinct dark yellowish brown (10YR 4/4) masses of iron accumulation in the matrix; common fine irregular brown (7.5YR 4/4) masses of iron-manganese accumulation with clear boundaries; about 12 percent sand; slightly acid; clear smooth boundary.

2Bt1—36 to 47 inches; olive brown (2.5Y 4/3) clay loam; moderate medium prismatic structure parting to moderate fine angular and medium angular blocky; firm; few very fine roots; few very fine continuous tubular pores; common distinct very dark grayish brown (10YR 3/2) organo-clay films on faces of peds and few prominent very dark gray (10YR 3/1) organo-clay films on vertical faces of peds and lining root channels; many medium faint grayish brown (2.5Y 5/2) iron depletions in the matrix; neutral; clear smooth boundary.

2Bt2—47 to 54 inches; olive brown (2.5Y 4/3) loam; weak medium angular blocky structure; friable; few very fine roots; few very fine continuous tubular pores; common distinct very dark grayish brown (10YR 3/2) organo-clay films on faces of peds and lining root channels; common fine faint dark grayish brown (2.5Y 4/2) iron depletions and few medium faint dark yellowish brown (10YR 4/4) masses of iron accumulation in the matrix; slightly acid; clear smooth boundary.

Soil Survey of Pulaski County, Illinois

2BCt—54 to 62 inches; brown (10YR 4/3) fine sandy loam; weak medium and coarse angular blocky structure; very friable; few very fine roots; common very fine and fine continuous tubular pores; few distinct very dark grayish brown (10YR 3/2) organo-clay films on vertical faces of peds and lining root channels and pores; common medium faint dark grayish brown (2.5Y 4/2) iron depletions in the matrix; few shiny mica flecks; slightly acid; clear smooth boundary.

2C1—62 to 78 inches; brown (10YR 4/3) stratified fine sandy loam and loamy fine sand; massive; very friable; few very fine and fine continuous tubular pores; common fine faint grayish brown (2.5Y 5/2) iron depletions in the matrix; few shiny mica flecks; slightly acid; abrupt smooth boundary.

2C2—78 to 90 inches; yellowish brown (10YR 5/4) fine sand; single grain; loose; neutral.

Range in Characteristics

Depth to the base of the cambic horizon: 36 to 60 inches

Thickness of the mollic epipedon: 10 to 24 inches; epipedon extends into the upper part of the B horizons in some pedons

Depth to horizons with more than 15 percent sand: 26 to 40 inches

Depth to carbonates: More than 40 inches

Ap and A horizons:

Hue—10YR

Value—2 or 3 (4 or 5 dry)

Chroma—1 or 2

Texture—commonly silty clay loam; less commonly silt loam or silty clay

Btg or Bg horizons that formed in silty alluvium:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—3 to 5

Chroma—0 to 2

Texture—silty clay loam or silty clay

Clay content—average of 27 to 35 percent; individual horizons range to 42 percent

Sand content—less than 15 percent

2Bt, 2Btg, or 2BC horizons that formed in loamy or sandy alluvium:

Hue—7.5YR, 10YR, 2.5Y, or 5Y

Value—3 to 5

Chroma—1 to 4

Texture—sandy clay loam, clay loam, loam, sandy loam, or loamy sand or the fine or very fine analogs of these textures

Clay content—average of 18 to 27 percent; individual horizons range from 8 to 32 percent

Sand content—average of 30 to 75 percent; individual horizons range from 30 to 85 percent

2C or 2Cg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—3 to 6

Chroma—2 to 6

Texture—commonly sand or loamy sand and less commonly sandy loam or the fine and very fine analogs of these textures; thin strata of other textures occur in some pedons

Clay content—average of 5 to 15 percent

Sand content—60 to 95 percent

Hatfield Series

Taxonomic classification: Fine-silty, mixed, active, mesic Aeric Fragic Epiaqualfs

Typical Pedon

Hatfield silt loam; in Massac County, Illinois; in a nearly level, brushy wildlife area on the east side of Mermet Lake, at an elevation of about 430 feet above mean sea level, approximately 235 feet along the access lane southwest of the gravel road, 15 feet southeast of lane in SE1/4 SW1/4 NW1/4 SW1/4 sec. 36, T. 14 S., R. 3 E.; USGS Mermet, IL topographic quadrangle; lat. 37 degrees 15 minutes 17 seconds N. and long. 88 degrees 50 minutes 14 seconds W.; UTM Zone 16, Easting 337069, Northing 4124701, NAD 83:

- Ap—0 to 7 inches; brown (10YR 4/3) silt loam, pale brown (10YR 6/3) dry and brown (10YR 4/3) crushed; moderate medium granular structure; friable; strongly acid; abrupt smooth boundary.
- E—7 to 14 inches; yellowish brown (10YR 5/4) silt loam; weak very thick platy structure parting to weak coarse granular; friable; many medium distinct light gray (10YR 7/2) and few fine distinct brownish yellow (10YR 6/6) masses of iron accumulation in the matrix; common very fine black (N 2/0) and very dark grayish brown (10YR 3/2) iron-manganese concretions; very strongly acid; clear smooth boundary.
- Btg1—14 to 25 inches; light brownish gray (10YR 6/2) silty clay loam; moderate medium prismatic structure parting to moderate medium subangular blocky and weak fine angular blocky; very firm; many faint brown (10YR 5/3) clay films on faces of peds; many fine prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common very fine dark brown (7.5YR 3/2) and strong brown (7.5YR 5/6) iron-manganese concretions; very strongly acid; clear smooth boundary.
- Btg2—25 to 36 inches; light brownish gray (10YR 6/2) silty clay loam; weak medium prismatic structure parting to moderate medium subangular blocky and moderate fine angular blocky; very firm; common faint brown (10YR 5/3) clay films on faces of peds; many very fine faint light gray (10YR 7/2) iron depletions and many fine prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; many fine black (N 2/0), dark brown (7.5YR 3/2), and strong brown (7.5YR 5/6) iron-manganese concretions; very strongly acid; clear smooth boundary.
- Btx—36 to 45 inches; yellowish brown (10YR 5/4) silt loam; weak fine and medium subangular blocky structure; firm; few faint light yellowish brown (10YR 6/4) clay films on faces of peds; common fine distinct light gray (10YR 7/2) and light brownish gray (10YR 6/2) iron depletions; many fine dark brown (7.5YR 3/2) and strong brown (7.5YR 5/6) iron concretions; slightly brittle; very strongly acid; gradual smooth boundary.
- BC1—45 to 59 inches; brown (7.5YR 4/4) silt loam; weak coarse subangular blocky structure; firm to friable; common fine and medium distinct light brownish gray (10YR 6/2) and pale brown (10YR 6/3) iron depletions; common fine dark brown (7.5YR 3/2) and black (N 2/0) iron-manganese concretions; slightly acid; gradual wavy boundary.
- BC2—59 to 80 inches; dark yellowish brown (10YR 4/4) silt loam containing silty clay loam lenses; weak coarse subangular blocky structure; friable; common fine distinct yellowish brown (10YR 5/6) iron accumulations; common very fine dark brown (7.5YR 3/2) iron-manganese concretions; moderately acid.

Range in Characteristics

Ap or A horizon:
Hue—10YR

Soil Survey of Pulaski County, Illinois

Value—4 or 5
Chroma—2 to 4
Texture—silt loam
Reaction—strongly acid to neutral

E horizon:

Hue—10YR or 7.5YR
Value—4 or 5
Chroma—2 to 4
Texture—silt loam
Reaction—strongly acid to neutral

Bt horizon (if it occurs):

Hue—10YR or 7.5YR
Value—5 or 6
Chroma—4 to 6
Texture—silt loam or silty clay loam
Reaction—strongly acid or moderately acid

Btg horizon:

Hue—10YR or 2.5Y
Value—5 to 7
Chroma—1 or 2
Texture—silt loam or silty clay loam
Reaction—very strongly acid or strongly acid

Btx horizon:

Hue—10YR or 7.5YR
Value—4 to 6
Chroma—2 to 6
Texture—silt loam, silty clay loam, or loam
Reaction—very strongly acid or strongly acid

BC horizon:

Hue—10YR or 7.5YR
Value—4 or 5
Chroma—2 to 6
Texture—horizon is silt loam, silty clay loam, clay loam, or loam or is stratified with these textures
Reaction—strongly acid to slightly alkaline

Haymond Series

Taxonomic classification: Coarse-silty, mixed, superactive, mesic Dystric Fluventic Eutrudepts

Typical Pedon

Haymond silt loam; in Union County, Illinois; in a nearly level field, at an elevation of about 360 feet above mean sea level, approximately 4 miles northwest of Jonesboro, about 1,650 feet south and 530 feet east of the northwest corner of sec. 21, T. 12 S., R. 2 W.; USGS Jonesboro, IL topographic quadrangle; lat. 37 degrees 27 minutes 45 seconds N. and long. 89 degrees 20 minutes 19 seconds W.; UTM Zone 16, Easting 293167, Northing 4148751, NAD 83:

Ap—0 to 10 inches; brown (10YR 4/3) silt loam, light brownish gray (10YR 6/2) dry;

Soil Survey of Pulaski County, Illinois

weak medium granular structure; friable; moderately acid; gradual smooth boundary.

- A—10 to 20 inches; brown (10YR 4/3) silt loam; weak medium granular structure; very friable; moderately acid; gradual smooth boundary.
- Bw1—20 to 42 inches; yellowish brown (10YR 5/4) silt loam; weak medium subangular blocky structure; friable; moderately acid; gradual smooth boundary.
- Bw2—42 to 60 inches; yellowish brown (10YR 5/4) silt loam that has pockets of pale brown (10YR 6/3) material; weak fine subangular blocky structure; friable; moderately acid; gradual smooth boundary.
- C—60 to 80 inches; pale brown (10YR 5/3) silt loam; massive; friable; moderately acid.

Range in Characteristics

Depth to the base of the cambic horizon: 30 to 60 inches

Other characteristics: Loamy strata that may contain pebbles or flagstones occur below a depth of 40 inches

Ap or A horizon:

Hue—10YR
Value—4 or 5 (6 or 7 dry)
Chroma—2 to 4
Texture—silt loam or silt

Bw horizon:

Hue—10YR
Value—4 or 5
Chroma—3 or 4
Texture—silt loam

C horizon:

Hue—10YR
Value—4 or 5
Chroma—3 or 4
Texture—silt loam, fine sandy loam, sandy loam, or loam

Hosmer Series

Taxonomic classification: Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs

Typical Pedon

Hosmer silt loam; in Union County, Illinois; in a nearly level to rolling open area, at an elevation of about 790 feet above mean sea level, approximately 3¹/₄ miles northwest of Lick Creek, about 1,200 feet north and 2,225 feet east of the southwest corner of sec. 16, T. 11 S., R. 1 E.; USGS Lick Creek, IL topographic quadrangle; lat. 37 degrees 33 minutes 35 seconds N. and long. 89 degrees 06 minutes 32 seconds W.; UTM Zone 16, Easting 313716, Northing 4159068, NAD 83:

- Ap—0 to 7 inches; brown (10YR 4/3) silt loam; moderate thin platy structure parting to weak fine granular; few weak very fine subangular blocky peds; friable; common krotovinas; many roots; neutral; abrupt smooth boundary.
- Bt1—7 to 18 inches; brown (10YR 5/3) silty clay loam; moderate fine and medium subangular blocky structure; firm; common distinct dark yellowish brown (10YR 4/4) clay films on faces of peds; few krotovinas; common vesicular pores; common fine dark concretions; strongly acid; gradual smooth boundary.
- Bt2—18 to 25 inches; yellowish brown (10YR 5/4) silt loam; moderate fine and medium subangular blocky structure; firm; common distinct dark yellowish brown (10YR 4/4) clay films on faces of peds; few medium prominent strong brown (7.5YR 5/8)

Soil Survey of Pulaski County, Illinois

masses of iron accumulation; few fine distinct light brownish gray (10YR 6/2) iron depletions; few fine masses of iron and manganese accumulation; strongly acid; abrupt smooth boundary.

Bt/E—25 to 28 inches; yellowish brown (10YR 5/6) silt loam (Bt part); fine and medium moderate subangular blocky structure; firm; thin to thick clay depletions of light brownish gray (10YR 6/2) silt (E part); common distinct dark yellowish brown (10YR 4/4) clay films on faces of peds; common fine masses of iron and manganese concretions; strongly acid; abrupt smooth boundary.

Btx1—28 to 35 inches; yellowish brown (10YR 5/6), dark yellowish brown (10YR 4/4), and light brownish gray (2.5Y 6/2) silty clay loam; moderate very coarse and medium prismatic structure; very firm; many prominent grayish brown (2.5Y 5/2) clay films on all faces of peds; many distinct light brownish gray (2.5Y 6/2) clay depletions on faces of peds; common masses of iron and manganese accumulation and stains; brittle; strongly acid; gradual smooth boundary.

Btx2—35 to 55 inches; yellowish brown (10YR 5/6), dark yellowish brown (10YR 4/4), and light brownish gray (2.5Y 6/2) silty clay loam; moderate very coarse and medium prismatic structure; very firm; many distinct grayish brown (2.5Y 5/2) and brown (10YR 5/3) clay films on vertical and horizontal faces of peds; few iron and manganese stains; brittle; strongly acid; gradual smooth boundary.

Btx3—55 to 67 inches; yellowish brown (10YR 5/4) silt loam; weak very coarse prismatic structure; very firm; few distinct grayish brown (2.5Y 5/2) clay films on faces of peds; many coarse distinct light brownish gray (2.5Y 6/2) iron depletions; common iron and manganese stains on vertical faces of peds; brittle; moderately acid; gradual smooth boundary.

Btx4—67 to 80 inches; yellowish brown (10YR 5/4) silt loam; weak very coarse prismatic structure and massive; firm; common medium prominent light olive gray (5Y 6/2) iron depletions; iron and manganese stains in some vertical cracks and in old root channels; brittle; moderately acid.

Range in Characteristics

Thickness of loess: 7 to more than 12 feet

Particle-size control section: Average of 16 to 33 percent clay and 2 to 10 percent sand

Depth to the base of the argillic horizon: 50 to more than 80 inches

Depth to the fragipan: 20 to 36 inches

Ap horizon:

Hue—10YR

Value—4 or 5 (6 or 7 dry)

Chroma—2 to 4

Texture—typically silt loam; silty clay loam in some severely eroded pedons

E horizon (if it occurs):

Hue—10YR

Value—4 or 5 (6 or 7 dry)

Chroma—2 to 6

Texture—silt loam

Bt horizon:

Hue—10YR or 7.5YR

Value—4 to 6

Chroma—3 to 6

Texture—silt loam or silty clay loam

Bt/E horizon:

Hue—10YR or 7.5YR

Value—4 to 6
Chroma—2 to 6
Texture—silt loam in Bt part; silt in E part

Btx horizon:

Hue—10YR, 7.5YR, or 2.5Y
Value—4 to 6
Chroma—2 to 6
Texture—silt loam or silty clay loam

Hurst Series

Taxonomic classification: Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs

Typical Pedon

Hurst silt loam; in Williamson County, Illinois; in a nearly level cultivated field at an elevation of about 385 feet above mean sea level, approximately 3 miles east of Hurst, about 1,490 feet north and 1,200 feet west of the southeast corner of sec. 10, T. 8 S., R. 1 E.; USGS Herrin, IL topographic quadrangle; lat. 37 degrees 50 minutes 15 seconds N. and long. 89 degrees 04 minutes 48 seconds W; UTM Zone 16, Easting 316969, Northing 4189824, NAD 83:

Ap—0 to 7 inches; dark grayish brown (10YR 4/2) silt loam, light brownish gray (10YR 6/2) dry; weak medium granular structure; friable; many very fine roots; common fine and medium rounded black (7.5YR 2.5/1) iron-manganese nodules with sharp boundaries; about 21 percent clay; slightly acid; abrupt smooth boundary.

E—7 to 12 inches; brown (10YR 5/3) silt loam, very pale brown (10YR 7/3) dry; moderate medium platy structure parting to weak fine subangular blocky; friable; common very fine roots; many fine faint light brownish gray (10YR 6/2) iron depletions and common medium faint yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; common fine and medium rounded black (7.5YR 2.5/1) iron-manganese nodules with sharp boundaries; about 22 percent clay; strongly acid; clear smooth boundary.

Bt1—12 to 18 inches; yellowish brown (10YR 5/4) silty clay loam; moderate fine and medium subangular blocky structure; firm; common very fine roots; common distinct brown (10YR 4/3) clay films on faces of peds; many prominent very pale brown (10YR 8/2) clay depletions on faces of peds; many fine and medium distinct light brownish gray (10YR 6/2) iron depletions and common medium distinct strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; few fine rounded very dark brown (7.5YR 2.5/2) iron-manganese nodules with clear strong brown (7.5YR 4/6) boundaries; about 30 percent clay; very strongly acid; clear smooth boundary.

2Bt2—18 to 28 inches; brown (10YR 5/3) silty clay; weak fine prismatic structure parting to weak medium angular blocky; very firm; common very fine roots; common distinct dark grayish brown (10YR 4/2) clay films on faces of peds; many fine faint grayish brown (10YR 5/2) iron depletions and common fine prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common fine irregular strong brown (7.5YR 4/6) masses of iron-manganese accumulation with clear boundaries; about 43 percent clay; very strongly acid; gradual smooth boundary.

2Btg1—28 to 40 inches; grayish brown (2.5Y 5/2) silty clay loam; weak fine prismatic structure parting to weak medium angular blocky; very firm; few very fine roots; common distinct dark grayish brown (10YR 4/2) clay films on faces of peds and few prominent brown (10YR 4/3) clay films lining large channels; few fine and medium prominent strong brown (7.5YR 5/6) masses of iron accumulation in the

Soil Survey of Pulaski County, Illinois

- matrix; few fine irregular strong brown (7.5YR 4/6) masses of iron-manganese accumulation with clear boundaries; about 38 percent clay; very strongly acid; clear smooth boundary.
- 2Btg2—40 to 53 inches; grayish brown (2.5Y 5/2) silty clay; weak medium prismatic structure parting to weak medium angular blocky; very firm; few very fine roots; common distinct dark grayish brown (10YR 4/2) clay films on faces of peds; common prominent black (N 2.5/0) iron-manganese coatings on faces of peds and lining large channels; few fine prominent yellowish brown (10YR 5/6) and common fine distinct dark brown (10YR 3/3) masses of iron accumulation in the matrix; about 46 percent clay; moderately acid; clear smooth boundary.
- 2Btg3—53 to 62 inches; grayish brown (2.5Y 5/2) silty clay loam; weak medium prismatic structure parting to weak coarse angular blocky; firm; few very fine roots; common distinct dark grayish brown (10YR 4/2) clay films on faces of peds; common medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; many coarse irregular black (7.5YR 2.5/1) masses of iron-manganese accumulation with clear strong brown (7.5YR 5/6) boundaries; about 37 percent clay; slightly effervescent; slightly alkaline; clear smooth boundary.
- 2BCkg—62 to 76 inches; olive gray (5Y 4/2) silty clay; weak medium prismatic structure parting to moderate medium angular blocky; very firm; few very fine roots; common distinct olive gray (5Y 4/2) pressure faces on faces of peds; common distinct very dark brown (7.5YR 2.5/3) iron-manganese coatings on ped faces and lining large channels; few fine prominent yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; few fine irregular black (7.5YR 2.5/1) and strong brown (7.5YR 5/6) masses of iron-manganese accumulation with diffuse boundaries; common fine and medium irregular white (10YR 8/1, dry) carbonate concretions; about 45 percent clay; strongly effervescent; slightly alkaline; clear smooth boundary.
- 2Cg—76 to 80 inches; grayish brown (2.5Y 5/2) silty clay loam; massive; firm; few distinct dark grayish brown (10YR 4/2) clay films lining vertical channels; common medium prominent strong brown (7.5YR 4/6) masses iron accumulation along vertical channels; few fine distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; common fine irregular very dark brown (7.5YR 2.5/2) masses of iron-manganese accumulation with diffuse strong brown (7.5YR 5/6) boundaries; about 33 percent clay; slightly alkaline.

Range in Characteristics

Depth to the base of the argillic horizon: 44 to more than 80 inches

Thickness of loess or other silty material: 0 to 24 inches

Depth to carbonates: More than 40 inches

Other characteristics: Some pedons, especially those having a loess cap of nearly 24 inches in thickness, have a BE or Bt horizon

Ap or A horizon:

Hue—10YR

Value—4 or 5 (6 or 7 dry)

Chroma—2 or 3

Texture—commonly silt loam; less commonly silty clay loam

E horizon (if it occurs):

Hue—10YR

Value—5 or 6 (6 to 8 dry)

Chroma—2 or 3

Texture—commonly silt loam; less commonly silty clay loam

Bt and 2Btg horizons:

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 to 4

Texture—silty clay loam, silty clay, or clay

2BCkg, 2BC, 2BCg, 2Cg, and 2C horizons (if they occur):

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 to 4

Texture—silty clay loam or silty clay; horizon is stratified in some pedons

Jacob Series

Taxonomic classification: Very fine, smectitic, acid, mesic Vertic Endoaquepts

Typical Pedon

Jacob silty clay; in Jackson County, Illinois; in a nearly level wooded area, at an elevation of about 350 feet above mean sea level, about 4 miles east of Grand Tower, approximately 50 feet north and 1,600 feet east of the southwest corner of sec. 22, T. 10 S., R. 3 W.; USGS Gorham, IL topographic quadrangle; lat. 37 degrees 37 minutes 47 seconds N. and long. 89 degrees 25 minutes 47 seconds W.; UTM Zone 16, Easting 285575, Northing 4167521, NAD 83:

A—0 to 4 inches; dark gray (10YR 4/1) silty clay; moderate medium granular structure; very firm; common fine faint gray (10YR 5/1) iron depletions; slightly acid; clear wavy boundary.

Bg1—4 to 16 inches; gray (10YR 5/1) clay; weak fine angular blocky structure; very firm; very plastic; few fine prominent olive brown (2.5Y 4/4) masses of iron accumulation; very strongly acid; gradual wavy boundary.

Bg2—16 to 34 inches; gray (5Y 5/1) clay; weak fine angular blocky structure; very firm; very plastic; common fine prominent light olive brown (2.5Y 5/4) masses of iron accumulation; very strongly acid; gradual wavy boundary.

Bg3—34 to 50 inches; olive gray (5Y 5/2) clay; weak fine angular blocky structure in the upper part and weak coarse prismatic structure in the lower part; very plastic; very strongly acid; gradual wavy boundary.

Bssg—50 to 80 inches; grayish brown (2.5Y 5/2) clay; weak coarse prismatic structure; very firm; dark grayish brown (2.5Y 4/2) coatings on pressure faces; many fine distinct light olive brown (2.5Y 5/4) masses of iron accumulation; common very dark brown (10YR 2/2) iron and manganese oxide accumulations and nodules along slickensides; slightly acid.

Range in Characteristics

Depth to the base of soil development: 40 to more than 60 inches

A or Ap horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—3 to 5 in A horizon; typically 4 to 6 in Ap horizon in cultivated areas

Chroma—0 to 2 in A horizon; 1 or 2 in Ap horizon

Texture—silty clay or clay

Bg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—5 to 7

Chroma—0 to 2

Texture—clay or silty clay

Bssg, BCg, and Cg horizons:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—5 to 7

Chroma—0 to 2

Texture—clay or silty clay

Karnak Series

Taxonomic classification: Fine, smectitic, nonacid, mesic Vertic Endoaquepts

Typical Pedon

Karnak silty clay; in Massac County, Illinois; in a nearly level cultivated field, at an elevation of about 350 feet above mean sea level, approximately 3 miles east of Karnak, about 230 feet north and 2,800 feet west of the southeast corner of sec. 18, T. 14 S., R. 3 E.; USGS Karnak, IL topographic quadrangle; lat. 37 degrees 17 minutes 28 seconds N. and long. 88 degrees 55 minutes 20 seconds W.; UTM Zone 16, Easting 329612, Northing 4128909, NAD 83:

Ap—0 to 5 inches; very dark grayish brown (10YR 3/2) silty clay, gray (10YR 6/1) and light brownish gray (10YR 6/2) dry; weak fine granular structure; firm; slightly acid; abrupt smooth boundary.

Bg1—5 to 12 inches; dark gray (5Y 4/1) silty clay; weak medium and fine subangular blocky structure; firm; few faint dark gray (5Y 4/1) pressure faces on faces of peds; few fine distinct olive (5Y 5/4) masses of iron accumulation; few prominent yellowish brown (10YR 5/6 and 5/8) iron-manganese stains on surfaces in root channels; slightly acid; clear smooth boundary.

Bg2—12 to 20 inches; dark gray (5Y 4/1) silty clay; weak very fine and fine prismatic structure parting to weak medium and fine subangular blocky; firm; few faint dark gray (5Y 4/1) pressure faces on faces of peds; few faint dark gray (5Y 4/1) clay films on surfaces in root channels; common fine prominent light olive brown (2.5Y 5/6) masses of iron accumulation; common fine black (N 2/0) and yellowish brown (10YR 5/8) concretions of iron-manganese accumulation; slightly acid; clear smooth boundary.

Bg3—20 to 33 inches; dark gray (5Y 4/1) silty clay; moderate medium prismatic structure parting to weak very fine angular blocky; firm; few distinct gray (N 5/0) clay films on surfaces in root channels; common fine prominent light olive brown (2.5Y 5/6) and few fine prominent yellowish brown (10YR 5/6) masses of iron accumulation; common fine yellowish brown (10YR 5/8) concretions of iron-manganese accumulation; slightly acid; clear smooth boundary.

Bg4—33 to 50 inches; dark gray (N 4/0) silty clay; weak fine prismatic structure parting to weak fine subangular blocky; firm; few distinct gray (N 5/0) pressure faces on faces of peds; few fine prominent light olive brown (2.5Y 5/6) and few fine prominent yellowish brown (10YR 5/6) masses of iron accumulation; slightly acid; clear smooth boundary.

Cg—50 to 80 inches; gray (5Y 5/1) silty clay loam; massive; firm; many fine prominent yellowish brown (10YR 5/6 and 5/8) and common fine prominent light olive brown (2.5Y 5/6) masses of iron accumulation; few fine faint light gray (5Y 7/1) iron depletions; slightly alkaline.

Range in Characteristics

Depth to the base of the cambic horizon: Typically 45 to 55 inches; ranging from 30 to 60 inches

Particle-size control section: Average of 40 to 60 percent clay

Soil Survey of Pulaski County, Illinois

A or Ap horizon:

Hue—10YR

Value—3 to 6 (4 to 6 dry)

Chroma—1 to 3

Texture—silty clay, clay, or silty clay loam; silt loam in overwash map units

Bg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 7

Chroma—0 to 2

Texture—clay or silty clay

BCg and Cg horizons:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 7

Chroma—0 to 2

Texture—silty clay or silty clay loam; some pedons have strata with more sand and less clay

Lamont Series

Taxonomic classification: Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs

Typical Pedon

Lamont fine sandy loam; in Massac County, Illinois; on a moderately steep slope in a cultivated field, at an elevation of about 350 feet above mean sea level, approximately 140 feet west of a north-south fence and 165 feet north of a east-west fence, in the NE1/4 NE1/4 SW1/4 SW1/4 of sec. 19, T. 14 S., R. 4 E.; USGS Mermet, IL topographic quadrangle; lat. 37 degrees 17 minutes 01 second N. and long. 88 degrees 48 minutes 59 seconds W.; UTM Zone 16, Easting 338972, Northing 4127875, NAD 83:

Ap—0 to 6 inches; brown (10YR 4/3) fine sandy loam; weak very fine granular structure; friable; neutral; clear smooth boundary.

E—6 to 11 inches; dark yellowish brown (10YR 4/4) fine sandy loam; weak very coarse platy structure; friable; slightly acid; clear smooth boundary.

BE—11 to 17 inches; 80 percent dark yellowish brown (10YR 4/4) and 20 percent yellowish brown (10YR 5/6) fine sandy loam; weak medium prismatic structure; friable; few faint brown (7.5YR 4/4) coatings on peds and in root and worm channels; few fine and very fine pores; moderately acid; clear smooth boundary.

Bt—17 to 27 inches; dark yellowish brown (10YR 4/4) fine sandy loam; weak coarse prismatic structure; friable; common faint brown (7.5YR 4/4) clay films on faces of peds; moderately acid; abrupt smooth boundary.

C—27 to 80 inches; strong brown (7.5YR 5/6) loamy fine sand; single grain; very friable; strongly acid.

Range in Characteristics

Depth to carbonates: More than 60 inches

Content of clay in the particle-size control section: 10 to 15 percent

Content of sand in the particle-size control section: 60 to 80 percent

Rock fragment content: 0 percent

A or Ap horizon:

Hue—10YR

Value—3 in uneroded areas; 3 or 4 in cultivated or eroded areas

Chroma—1 or 2 in uneroded areas; 2 or 3 in eroded or cultivated areas

Soil Survey of Pulaski County, Illinois

Texture—fine sandy loam
Clay content—5 to 20 percent
Sand content—50 to 80 percent
Reaction—strongly acid to neutral

E horizon:

Hue—10YR
Value—4 or 5
Chroma—2 or 3
Texture—fine sandy loam, sandy loam, or loamy fine sand
Clay content—5 to 20 percent
Sand content—50 to 80 percent
Reaction—strongly acid to neutral

BE horizon (if it occurs):

Hue—10YR or 7.5YR
Value—4 to 6
Chroma—3 to 6
Texture—fine sandy loam, sandy loam, or loamy fine sand
Clay content—5 to 20 percent
Sand content—50 to 80 percent
Reaction—strongly acid to neutral

Bt horizon:

Hue—10YR or 7.5YR
Value—4 to 6
Chroma—3 to 6
Texture—fine sandy loam, sandy loam, loam, or sandy clay loam
Clay content—5 to 24 percent
Sand content—35 to 80 percent
Reaction—strongly acid to slightly acid

BC or C horizon (if it occurs):

Hue—10YR or 7.5YR
Value—3 to 6
Chroma—3 to 6
Texture—fine sandy loam, sandy loam, loamy fine sand, loamy sand, fine sand, or sand
Clay content—2 to 24 percent
Sand content—35 to 95 percent
Reaction—strongly acid to neutral

Menfro Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Typic Hapludalfs

Typical Pedon

Menfro silt loam; in St. Clair County, Illinois; in a gently sloping area of a cultivated field, at an elevation of about 560 feet above mean sea level, approximately 1.5 miles northwest of O'Fallon, about 1,500 feet north and 1,500 feet east of the center of sec. 24, T. 2 N., R. 8 W.; USGS O'Fallon, IL topographic quadrangle; lat. 38 degrees 36 minutes 42 seconds N. and long. 89 degrees 55 minutes 58 seconds W.; UTM Zone 16, Easting 244628, Northing 4277774, NAD 83:

Ap—0 to 7 inches; brown (10YR 4/3) silt loam, pale brown (10YR 6/3) dry; moderate very fine granular structure; friable; many very fine and few fine roots; about 22 percent clay; moderately acid; abrupt smooth boundary.

Soil Survey of Pulaski County, Illinois

- E—7 to 10 inches; yellowish brown (10YR 5/4) silt loam, light yellowish brown (10YR 6/4) dry; moderate medium platy structure parting to moderate very fine subangular blocky; friable; common very fine roots; common fine continuous tubular pores; about 24 percent clay; moderately acid; abrupt smooth boundary.
- Bt1—10 to 18 inches; dark yellowish brown (10YR 4/4) silty clay loam; moderate fine subangular blocky structure; firm; common very fine roots; few fine continuous tubular pores; many faint dark yellowish brown (10YR 4/4) clay films on faces of peds; about 32 percent clay; moderately acid; clear smooth boundary.
- Bt2—18 to 35 inches; dark yellowish brown (10YR 4/4) silty clay loam; moderate fine and medium subangular blocky structure; firm; common very fine roots; few fine continuous tubular pores; many distinct brown (10YR 4/3) clay films on faces of peds; about 31 percent clay; moderately acid; gradual smooth boundary.
- Bt3—35 to 50 inches; dark yellowish brown (10YR 4/4) silty clay loam; moderate medium subangular blocky structure; firm; few very fine roots; few very fine and fine continuous tubular pores; common distinct brown (10YR 4/3) clay films on faces of peds; about 30 percent clay; moderately acid; gradual smooth boundary.
- Bt4—50 to 62 inches; dark yellowish brown (10YR 4/4) silty clay loam; weak medium subangular blocky structure; friable; few very fine roots; few very fine and fine vesicular and tubular pores; few distinct brown (10YR 4/3) clay films on vertical faces of peds; about 28 percent clay; moderately acid; gradual smooth boundary.
- Bt5—62 to 70 inches; dark yellowish brown (10YR 4/4) silt loam; weak coarse subangular blocky structure; friable; few very fine roots; common very fine and fine vesicular and tubular pores; few distinct brown (10YR 4/3) clay films lining root channels and pores; about 24 percent clay; slightly acid; gradual smooth boundary.
- Bt6—70 to 80 inches; dark yellowish brown (10YR 4/4) silt loam; weak very coarse prismatic structure; very friable; few very fine roots; common very fine and fine vesicular and tubular pores; very few faint brown (10YR 4/3) clay films lining root channels and pores; about 20 percent clay; slightly acid.

Range in Characteristics

Thickness of the solum: Typically 50 to 70 inches; ranging from 30 to 100 inches

Thickness of loess: 6 feet to more than 20 feet

Particle-size control section: Upper 20 inches of the argillic horizon averages between 27 and 35 percent clay and less than 7 percent sand; the horizon with the highest clay content has 30 to 38 percent

Ap horizon:

Hue—10YR

Value—3 to 5 (6 or 7 dry)

Chroma—2 to 4

Texture—silt loam or silty clay loam

A horizon (in undisturbed areas):

Hue—10YR

Value—2 to 4 (4 to 6 dry)

Chroma—2 or 3

Texture—silt loam

E horizon:

Hue—10YR

Value—4 or 5 (6 or 7 dry)

Chroma—3 or 4

Texture—silt loam

BE horizon (if it occurs):

Hue—7.5YR or 10YR

Soil Survey of Pulaski County, Illinois

Value—4 or 5
Chroma—3 or 4
Texture—silt loam or silty clay loam

Bt horizon:

Hue—7.5YR or 10YR
Value—4 or 5
Chroma—3 to 6
Texture—silty clay loam; ranging to silt loam in the lower part

C horizon (if it occurs):

Hue—7.5YR or 10YR
Value—4 to 6
Chroma—3 or 4
Texture—silt loam or silty clay loam

Muren Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Aquic Hapludalfs

Typical Pedon

Muren silt loam; in White County, Illinois; on gently sloping uplands, at an elevation of about 455 feet above mean sea level, approximately 300 feet north and 240 feet east of the center of sec. 35, T. 6 S., R. 9 E.; USGS New Haven, IL topographic quadrangle; lat. 37 degrees 57 minutes 35 seconds N. and long. 88 degrees 10 minutes 47 seconds W.; UTM Zone 16, Easting 396358, Northing 4201991, NAD 83:

- Ap—0 to 9 inches; brown (10YR 5/3) silt loam, very pale brown (10YR 7/3) dry; moderate fine granular structure; friable; common very fine roots; slightly acid; abrupt smooth boundary.
- E—9 to 14 inches; yellowish brown (10YR 5/4) silt loam; moderate thin platy structure; friable; few very fine roots; many distinct white (10YR 8/1, dry) silt coatings on faces of peds; few fine rounded accumulations of iron and manganese oxide; slightly acid; abrupt smooth boundary.
- Bt1—14 to 23 inches; strong brown (7.5YR 5/6) silty clay loam; moderate medium prismatic structure parting to moderate fine subangular blocky; firm; few very fine roots; many faint brown (7.5YR 5/4) clay films on faces of peds; common distinct white (10YR 8/1, dry) silt coatings on faces of peds; few fine rounded accumulations of iron and manganese oxide; moderately acid; clear smooth boundary.
- Bt2—23 to 35 inches; yellowish brown (10YR 5/6) silty clay loam; moderate medium prismatic structure parting to moderate fine subangular blocky; firm; few very fine roots; common distinct yellowish brown (10YR 5/4) clay films on faces of peds; common distinct white (10YR 8/1, dry) silt coatings on faces of peds; common fine prominent grayish brown (10YR 5/2) iron depletions; few fine distinct yellowish brown (10YR 5/8) masses of iron accumulation; few fine rounded accumulations of iron and manganese oxide; strongly acid; clear smooth boundary.
- Bt3—35 to 51 inches; yellowish brown (10YR 5/6) silty clay loam; weak medium prismatic structure; firm; few distinct yellowish brown (10YR 5/4) clay films on faces of peds; very few distinct white (10YR 8/1, dry) silt coatings on faces of peds; common fine prominent light brownish gray (10YR 6/2) iron depletions; common fine distinct yellowish brown (10YR 5/8) masses of iron accumulation; common fine and medium rounded concretions of iron and manganese oxide; moderately acid; gradual smooth boundary.
- C—51 to 80 inches; yellowish brown (10YR 5/6) silt loam; massive; friable; many

Soil Survey of Pulaski County, Illinois

medium prominent light brownish gray (10YR 6/2) iron depletions; common medium distinct strong brown (7.5YR 5/8) masses of iron accumulation; common fine and medium rounded concretions of iron and manganese oxide; slightly acid.

Range in Characteristics

Depth to the base of the argillic horizon: 30 to 70 inches

Series control section: Average of less than 7 percent sand; no rock fragments

Depth to carbonates: More than 80 inches

Ap horizon:

Hue—10YR

Value—4 or 5

Chroma—2 to 4

Texture—typically silt loam; silty clay loam in some severely eroded pedons

Reaction—strongly acid to slightly acid in unlimed areas; ranging to neutral in limed areas

E horizon:

Hue—10YR

Value—4 to 6

Chroma—2 to 4

Texture—silt loam or silt

Reaction—strongly acid to slightly acid

Bt horizon:

Hue—10YR or 7.5YR

Value—4 to 6

Chroma—3 to 6

Texture—silty clay loam or silt loam

Reaction—very strongly acid to moderately acid

C horizon:

Hue—10YR or 7.5YR

Value—4 to 7

Chroma—3 to 6

Texture—silt loam or silt

Reaction—very strongly acid to neutral

Okaw Series

Taxonomic classification: Fine, smectitic, mesic Chromic Vertic Albaqualfs

Typical Pedon

Okaw silt loam; in Jackson County, Illinois; on a nearly level lake plain in a cultivated field, at an elevation of about 390 feet above mean sea level, about 1.25 miles northwest of Vergennes, Illinois, approximately 1,944 feet west and 105 feet north of the southeast corner of sec. 8, T. 7 S., R. 2 W.; USGS Vergennes, IL topographic quadrangle; lat. 37 degrees 55 minutes 26 seconds N. and long. 89 degrees 20 minutes 48 seconds W.; UTM Zone 16, Easting 293742, Northing 4199967, NAD 83:

Ap—0 to 7 inches; dark grayish brown (10YR 4/2) silt loam, light brownish gray (10YR 6/2) dry; moderate very fine and fine granular structure; friable; common very fine roots; few very fine constricted tubular pores; few fine and medium rounded black (N 2.5/0) iron-manganese nodules with sharp boundaries; slightly acid; abrupt smooth boundary.

Eg1—7 to 11 inches; light brownish gray (10YR 6/2) silt loam, very pale brown (10YR

Soil Survey of Pulaski County, Illinois

- 8/2) dry; moderate thin platy structure parting to weak fine granular; friable; few very fine roots; many very fine and fine continuous tubular pores; common fine distinct dark yellowish brown (10YR 4/4) masses of iron accumulation in the matrix; common fine and medium rounded black (N 2.5/0) iron-manganese nodules with sharp boundaries; strongly acid; clear smooth boundary.
- Eg2—11 to 15 inches; light brownish gray (10YR 6/2) silt loam, very pale brown (10YR 8/2) dry; weak thin platy structure parting to weak fine granular; friable; few very fine roots; many very fine and fine pores; common fine prominent yellowish brown (10YR 5/8) masses of iron accumulation in the matrix; many fine and medium rounded black (N 2.5/0) iron-manganese nodules with sharp boundaries; very strongly acid; abrupt wavy boundary.
- 2Btg—15 to 31 inches; grayish brown (10YR 5/2) silty clay; weak fine prismatic structure parting to weak fine angular blocky; very firm; few very fine roots; common faint grayish brown (10YR 5/2) clay films on faces of peds; few fine and medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; common fine and medium rounded black (5YR 2.5/1) iron-manganese nodules with sharp boundaries; light brownish gray (10YR 6/2) silt loam material in krotovinas and along cracks; very strongly acid; clear smooth boundary.
- 2Bg—31 to 41 inches; olive gray (5Y 5/2) silty clay; weak medium prismatic structure parting to weak medium and coarse angular and subangular blocky; very firm; few very fine roots along faces of peds; few prominent very dark brown (10YR 2/2) iron-manganese stains on faces of peds; few fine and medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; common fine and medium rounded black (5YR 2.5/1) iron-manganese nodules with clear strong brown (7.5YR 4/6) boundaries; light brownish gray (10YR 6/2) silt loam material along cracks; very strongly acid; gradual smooth boundary.
- 2BCg—41 to 54 inches; olive gray (5Y 5/2) silty clay; weak coarse prismatic structure; very firm; few prominent very dark brown (10YR 2/2) iron-manganese stains on faces of peds; common medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few fine and medium rounded black (5YR 2.5/1) iron-manganese nodules with clear strong brown (7.5YR 4/6) boundaries; strongly acid; gradual smooth boundary.
- 2Cg—54 to 63 inches; olive gray (5Y 5/2) silty clay; massive; firm; common prominent very dark brown (10YR 2/2) iron-manganese stains on faces along some cleavage planes; many medium and coarse irregular black (10YR 2/1) masses of iron-manganese accumulation with diffuse strong brown (7.5YR 4/6) boundaries; neutral; clear smooth boundary.
- 2Cssg1—63 to 73 inches; olive gray (5Y 5/2) clay; massive; very firm; few prominent shiny slickensides and common distinct olive gray (5Y 4/2) pressure faces along vertical cleavage planes; common fine and medium irregular dark reddish brown (5YR 3/4) masses of iron-manganese accumulation with clear boundaries and few medium irregular black (10YR 2/1) iron-manganese nodules with diffuse strong brown (7.5YR 4/6) boundaries; slightly alkaline; gradual smooth boundary.
- 2Cssg2—73 to 80 inches; light olive gray (5Y 6/2) silty clay loam; massive; firm; few distinct shiny slickensides and few faint olive gray (5Y 5/2) pressure faces along cleavage planes; common medium and coarse prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; many medium and coarse irregular black (10YR 2/1) masses of iron-manganese accumulation with clear strong brown (7.5YR 4/6) boundaries; slightly alkaline.

Range in Characteristics

Depth to the base of soil development: 40 to 75 inches

Thickness of loess or other silty material: 10 to 20 inches

Other characteristics: Some pedons have a B/E horizon less than 3 inches thick that is

Soil Survey of Pulaski County, Illinois

mostly Bt material with clay depletions on faces of peds; some pedons contain carbonates in the 2Cg or 2C_{ssg} horizon

Ap or A horizon:

Hue—10YR

Value—3 to 5 (6 or 7 dry)

Chroma—1 or 2

Texture—commonly silt loam; less commonly silty clay loam

Eg horizon:

Hue—10YR

Value—4 to 7 (6 to 8 dry)

Chroma—1 or 2

Texture—commonly silt loam; less commonly silty clay loam

2Btg and 2Bg horizons:

Hue—10YR, 2.5Y, or neutral

Value—4 to 6

Chroma—0 to 2

Texture—silty clay or clay; some pedons have subhorizons that are silty clay loam

2BCg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 6

Chroma—0 to 2

Texture—silty clay loam, silty clay, or clay

2Cg and 2C_{ssg} horizons:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 6

Chroma—0 to 2

Texture—silty clay loam, silty clay, or clay

Petrolia Series

Taxonomic classification: Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts

Typical Pedon

Petrolia silty clay loam; in Clinton County, Illinois; in a nearly level cultivated field at an elevation of about 412 feet above mean sea level, approximately 3 miles south of Bartelso, about 400 feet south and 800 feet west of the center of sec. 29, T. 1 N., R. 3 W.; USGS Addieville, IL topographic quadrangle; lat. 38 degrees 29 minutes 56 seconds N. and long. 89 degrees 27 minutes 28 seconds W.; UTM Zone 16, Easting 285659, Northing 4263792, NAD 83:

Ap—0 to 8 inches; dark grayish brown (2.5Y 4/2) silty clay loam, light brownish gray (2.5Y 6/2) dry; moderate fine granular structure; friable; common very fine roots; few fine rounded black (N 2.5/0) and strong brown (7.5YR 4/6) masses of iron-manganese accumulation throughout; about 34 percent clay; neutral; abrupt smooth boundary.

Bg—8 to 15 inches; dark gray (2.5Y 4/1) silty clay loam; weak medium subangular blocky structure; friable; few very fine roots; few faint dark gray (2.5Y 4/1) pressure faces on faces of peds; common fine prominent dark yellowish brown (10YR 4/4) and common fine faint dark grayish brown (2.5Y 4/2) masses of iron accumulation in the matrix; few fine rounded black (N 2.5/0) and strong brown (7.5YR 4/6)

Soil Survey of Pulaski County, Illinois

masses of iron-manganese accumulation throughout; about 32 percent clay; slightly acid; clear smooth boundary.

Btg1—15 to 26 inches; gray (2.5Y 5/1) silty clay loam; weak fine prismatic structure parting to moderate medium subangular blocky; firm; few very fine roots; common distinct dark gray (2.5Y 4/1) clay films on faces of peds; common fine and medium prominent dark yellowish brown (10YR 4/4) masses of iron accumulation in the matrix; few fine and medium rounded black (N 2.5/0) iron-manganese nodules with sharp strong brown (7.5YR 4/6) boundaries and few fine irregular strong brown (7.5YR 5/6) masses of iron-manganese accumulation throughout; about 33 percent clay; slightly acid; clear smooth boundary.

Btg2—26 to 42 inches; gray (2.5Y 5/1) silty clay loam; weak medium prismatic structure parting to weak medium and coarse subangular blocky; firm; few very fine roots; few distinct dark gray (2.5Y 4/1) clay films on faces of peds; common fine and medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few fine and medium rounded black (N 2.5/0) iron-manganese nodules with sharp strong brown (7.5YR 4/6) boundaries and common fine irregular strong brown (7.5YR 5/6) masses of iron-manganese accumulation throughout; about 34 percent clay; slightly acid; gradual smooth boundary.

Btg3—42 to 55 inches; gray (2.5Y 5/1) silty clay loam; weak medium prismatic structure; firm; few very fine roots; few distinct dark gray (2.5Y 4/1) clay films lining root channels and pores; common medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few medium rounded black (7.5YR 2.5/1) iron-manganese nodules with clear strong brown (7.5YR 5/6) boundaries and common fine and medium irregular strong brown (7.5YR 4/6) masses of iron-manganese accumulation throughout; about 35 percent clay; slightly acid; gradual smooth boundary.

Cg1—55 to 73 inches; gray (2.5Y 6/1) silty clay loam; massive; firm; few very fine roots in old channels; few distinct dark gray (2.5Y 4/1) clay films lining root channels and pores; many fine and medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few medium rounded black (7.5YR 2.5/1) iron-manganese nodules with clear strong brown (7.5YR 5/6) boundaries and common fine and medium irregular strong brown (7.5YR 4/6) masses of iron-manganese accumulation throughout; about 33 percent clay; neutral; diffuse smooth boundary.

Cg2—73 to 80 inches; gray (2.5Y 6/1) silty clay loam; massive; firm; common medium and coarse prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; few fine irregular black (7.5YR 2.5/1) iron-manganese nodules with clear strong brown (7.5YR 5/6) boundaries and few fine and medium irregular strong brown (7.5YR 4/6) masses of iron-manganese accumulation throughout; dark gray (2.5Y 4/1) krotovinas; about 36 percent clay; neutral.

Range in Characteristics

Depth to the base of the cambic horizon: 30 to 80 inches

Particle-size control section: Average of 27 to 35 percent clay and less than 20 percent fine sand or coarser material

Ap or A horizon:

Hue—10YR or 2.5Y

Value—typically 4 to 6; 3 in some uncultivated areas

Chroma—1 or 2

Texture—silty clay loam

Bg or Btg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 6

Soil Survey of Pulaski County, Illinois

Chroma—0 to 2
Texture—silty clay loam
Reaction—moderately acid to neutral

Cg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral
Value—4 to 6
Chroma—0 to 2
Texture—dominantly silty clay loam; silt loam in some pedons; other pedons have strata of silty clay, silt loam, loam, or fine sandy loam
Reaction—strongly acid to slightly alkaline

Piopolis Series

Taxonomic classification: Fine-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts

Typical Pedon

Piopolis silty clay loam; in Hamilton County, Illinois; in a nearly level area in a cultivated field, at an elevation of about 384 feet above mean sea level, approximately 10 miles north of McLeansboro, about 1,340 feet south and 1,300 feet west of the center of sec. 26, T. 3 S., R. 6 E.; USGS Belle Prairie City, IL topographic quadrangle; lat. 38 degrees 13 minutes 47 seconds N. and long. 88 degrees 30 minutes 55 seconds W.; UTM Zone 16, Easting 367380, Northing 4232385, NAD 83:

Ap—0 to 7 inches; grayish brown (10YR 5/2) silty clay loam, light grayish brown (10YR 6/2) dry; weak medium granular structure; friable; slightly acid; abrupt smooth boundary.

Bg1—7 to 14 inches; light brownish gray (10YR 6/2) silty clay loam; weak coarse subangular blocky structure; firm; common medium prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common medium faint gray (10YR 6/1) iron depletions in the matrix; strongly acid; gradual smooth boundary.

Bg2—14 to 23 inches; gray (10YR 6/1) silty clay loam; weak coarse subangular blocky structure; firm; many medium prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; few dark iron and manganese concretions; strongly acid; gradual smooth boundary.

Bg3—23 to 37 inches; gray (10YR 6/1) silty clay loam; weak coarse subangular blocky structure; firm; many medium prominent strong brown (7.5YR 5/6) and common medium distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; common black iron and manganese concretions; strongly acid; gradual smooth boundary.

Cg—37 to 80 inches; gray (10YR 6/1) silty clay loam; massive; firm; few coarse prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; strongly acid.

Range in Characteristics

Depth to the base of the cambic horizon: 20 to 60 inches

Particle-size control section: Average of 27 to 35 percent clay and less than 15 percent fine sand or coarser material

Other characteristics: An irregular decrease in organic carbon content as depth increases

Ap or A horizon:

Hue—10YR, 2.5Y, or 5Y
Value—typically 4 to 6; 3 in some uncultivated areas

Soil Survey of Pulaski County, Illinois

Chroma—1 to 3

Texture—commonly silty clay loam; less commonly silt loam

B_g horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 6

Chroma—0 to 2

Texture—silty clay loam

C_g horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 6

Chroma—0 to 2

Texture—dominantly silty clay loam or silt loam; thin strata of fine sandy loam, loam, or silty clay in some pedons

Raccoon Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Typic Endoaqualfs

Typical Pedon

Raccoon silt loam; in Saline County, Illinois; in a nearly level area, in a cultivated field, at an elevation of about 425 feet above mean sea level, about 1 mile east of West End, approximately 135 feet north and 2,095 feet east of the center of sec. 30, T. 7 S., R. 5 E.; USGS Akin, IL topographic quadrangle; lat. 37 degrees 53 minutes 08 seconds N. and long. 88 degrees 41 minutes 23 seconds W.; UTM Zone 16, Easting 351411, Northing 4194463, NAD 83:

Ap—0 to 6 inches; dark grayish brown (10YR 4/2) silt loam, light brownish gray (10YR 6/2) dry; moderate fine granular structure; friable; common fine very dark grayish brown (10YR 3/2) masses of iron-manganese accumulation throughout; neutral; abrupt smooth boundary.

Eg1—6 to 10 inches; dark grayish brown (10YR 4/2) silt loam; weak thin platy structure; firm, dense as if compacted like a plow sole; common fine very dark grayish brown (10YR 3/2) masses of iron-manganese accumulation throughout; neutral; abrupt smooth boundary.

Eg2—10 to 14 inches; dark grayish brown (10YR 4/2) silt loam; weak medium platy structure parting to weak fine granular; friable; common fine faint grayish brown (10YR 5/2) and few fine distinct light gray (10YR 7/1) iron depletions in the matrix; common fine very dark grayish brown (10YR 3/2) masses of iron-manganese accumulation throughout; strongly acid; clear smooth boundary.

Eg3—14 to 30 inches; gray (10YR 6/1) silt loam; weak medium platy structure parting to weak fine granular; friable; common very fine constricted tubular pores; common medium prominent yellowish brown (10YR 5/6) and brownish yellow (10YR 6/6) masses of iron accumulation in the matrix; many fine black (10YR 2/1) masses of iron-manganese accumulation throughout; few grayish brown (10YR 5/2) krotovinas; very strongly acid; clear smooth boundary.

Btg1—30 to 37 inches; gray (10YR 6/1) silty clay loam; weak medium prismatic structure parting to weak fine subangular blocky; firm; few very fine tubular pores; common distinct dark grayish brown (10YR 4/2) clay films on faces of peds; common fine prominent yellowish brown (10YR 5/6) and brownish yellow (10YR 6/6) masses of iron accumulation in the matrix; common fine black (10YR 2/1) iron-manganese concretions; very strongly acid; clear smooth boundary.

Btg2—37 to 47 inches; gray (10YR 6/1) silty clay loam; moderate medium prismatic

Soil Survey of Pulaski County, Illinois

structure parting to weak medium subangular blocky; firm; common distinct dark grayish brown (10YR 4/2) clay films on faces of pedis; few fine faint light gray (10YR 7/1) iron depletions and many fine prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; common fine black (10YR 2/1) iron-manganese concretions; very strongly acid; clear smooth boundary.

Btg₃—47 to 59 inches; gray (10YR 6/1) silty clay loam; weak medium prismatic structure parting to weak medium subangular blocky; firm; few faint gray (10YR 5/1) clay films and common prominent dark olive gray (5Y 3/2) organo-clay films on faces of pedis; common medium prominent strong brown (7.5YR 5/6) and dark brown (7.5YR 4/4) masses of iron accumulation in the matrix; few fine black (10YR 2/1) iron-manganese concretions; strongly acid; clear smooth boundary.

Cg—59 to 80 inches; gray (5Y 6/1 and 10YR 6/1) silt loam; massive; friable; many coarse distinct grayish brown (10YR 5/2) and prominent brown (7.5YR 4/4) masses of iron accumulation in the matrix; slightly acid increasing to neutral in the lower part.

Range in Characteristics

Depth to the top of the argillic horizon: 24 to 36 inches

Depth to the base of the argillic horizon: 40 to 75 inches

Particle-size control section: Averages between 27 and 35 percent clay, less than 10 percent sand, and less than 2 percent gravel

Ap or A horizon:

Hue—10YR

Value—3 to 6 (5 to 7 dry)

Chroma—2 or 3

Texture—silt loam

Eg horizon:

Hue—10YR or 2.5Y

Value—4 to 7 (6 to 8 dry)

Chroma—1 or 2

Texture—silt loam

Btg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 7

Chroma—0 to 2

Texture—dominantly silty clay loam; silt loam in upper or lower subhorizons in some pedons

Cg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—4 to 7

Chroma—1 or 2

Texture—dominantly silt loam or loam; horizon is stratified loamy fine sand to silty clay in some pedons

Roby Series

Taxonomic classification: Coarse-loamy, mixed, superactive, mesic Aquic Hapludalfs

Typical Pedon

Roby fine sandy loam; in Randolph County, Illinois; in a gently sloping cultivated field, at an elevation of about 405 feet above mean sea level, about 3 miles northwest of Ellis Grove, Illinois; State Plain Coordinates 498,000 feet north and 562,750 feet east

Soil Survey of Pulaski County, Illinois

(Illinois West Zone); T. 6 S., R. 8 W.; USGS Evansville, IL topographic quadrangle; lat. 38 degrees 02 minutes 03 seconds N. and long. 89 degrees 56 minutes 55 seconds W.; UTM Zone 16, Easting 241212, Northing 4213711, NAD 83:

- Ap—0 to 9 inches; dark grayish brown (10YR 4/2) fine sandy loam, light brownish gray (10YR 6/2) dry; moderate medium granular structure parting to weak medium platy; very friable; neutral; abrupt smooth boundary.
- E—9 to 13 inches; brown (10YR 4/3) fine sandy loam; weak medium platy structure parting to moderate medium granular; very friable; neutral; clear smooth boundary.
- BE—13 to 16 inches; brown (10YR 4/3) fine sandy loam; weak and moderate fine and medium subangular blocky structure; very friable; few faint pale brown (10YR 6/3) coatings of very fine sand on faces of peds; few dark iron-manganese stains; slightly acid; clear smooth boundary.
- Bt1—16 to 21 inches; brown (10YR 5/3) fine sandy loam; moderate medium subangular blocky structure; very friable; common faint brown (10YR 4/3) clay films on faces of peds; common medium faint grayish brown (10YR 5/2) iron depletions in the matrix; common dark iron-manganese stains; moderately acid; clear smooth boundary.
- Bt2—21 to 27 inches; brown (10YR 5/3) loam; strong medium subangular blocky structure; friable; common faint grayish brown (10YR 5/2) and brown (10YR 4/3) clay films on faces of peds; many coarse faint light brownish gray (10YR 6/2) iron depletions and common coarse prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; moderately acid; abrupt smooth boundary.
- Bt3—27 to 31 inches; brown (10YR 5/3) clay loam; moderate medium subangular blocky structure parting to weak fine prismatic; firm; many distinct brown (10YR 4/3) clay films and many distinct light brownish gray (10YR 6/2) coatings of very fine sand on faces of peds; common fine faint grayish brown (10YR 5/2) iron depletions and many medium faint brown (7.5YR 5/4) masses of iron accumulation in the matrix; common fine dark iron-manganese stains; slightly acid; abrupt smooth boundary.
- Bt4—31 to 41 inches; brown (10YR 5/3) loam; strong medium subangular blocky structure parting to weak fine prismatic; friable; many distinct brown (10YR 4/3) clay films and many faint light brownish gray (10YR 6/2) coatings of very fine sand on faces of peds; common fine faint grayish brown (10YR 5/2) iron depletions in the matrix; common fine dark iron-manganese stains and concretions; neutral; clear smooth boundary.
- BCtg—41 to 49 inches; grayish brown (10YR 5/2) fine sandy loam; weak medium prismatic blocky structure parting to weak medium subangular blocky; friable; common faint brown (10YR 4/3) clay films and common faint light brownish gray (10YR 6/2) coatings of very fine sand on faces of peds; many medium and coarse distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; many fine dark iron-manganese stains and concretions; neutral; gradual smooth boundary.
- Cg—49 to 80 inches; stratified grayish brown (10YR 5/2) fine sandy loam and brown (10YR 4/3) loamy fine sand; massive; friable; common medium faint grayish brown (10YR 5/2) iron depletions and many medium distinct dark yellowish brown (10YR 4/4) masses of iron accumulation in the matrix; many fine dark iron-manganese stains and concretions; neutral.

Range in Characteristics

Depth to the base of soil development: 30 to 60 inches

Particle-size control section: Average of 12 to 18 percent clay and 45 to 80 percent sand

Soil Survey of Pulaski County, Illinois

Ap horizon:

Hue—10YR
Value—4 or 5; 3 in some uncultivated areas
Chroma—2 or 3; 1 in some uncultivated areas
Texture—fine sandy loam or loam; loamy fine sand or sandy loam in some pedons

E or BE horizon:

Hue—10YR
Value—4 to 6
Chroma—3 or 4
Texture—loamy fine sand or fine sandy loam

Bt horizon:

Hue—10YR
Value—4 to 6
Chroma—2 to 6
Texture—fine sandy loam, sandy loam, or loam; thin layers of clay loam or sandy clay loam occur in some pedons

BCtg, BCg, BCt, and BC horizons (if they occur):

Hue—10YR
Value—4 to 6
Chroma—2 to 6
Texture—fine sandy loam, sandy loam, or loam

C or Cg horizon:

Hue—7.5YR or 10YR
Value—4 to 6
Chroma—2 to 8
Texture—stratified sand to loam or the gravelly analogs of stratified textures

Ruark Series

Taxonomic classification: Fine-loamy, mixed, active, mesic Typic Endoaqualfs

Typical Pedon

Ruark fine sandy loam; in Alexander County, Illinois; on a nearly level terrace in a cultivated field at an elevation of about 334 feet above mean sea level, approximately $\frac{3}{4}$ mile south of Sandusky, about 1,195 feet north and 840 feet west of the southeast corner of sec. 24, T. 15 S., R. 2 W.; USGS Tamms, IL topographic quadrangle; lat. 37 degrees 11 minutes 36 seconds N. and long. 89 degrees 16 minutes 26 seconds W.; UTM Zone 16, Easting 298178, Northing 4118726, NAD 83:

Ap—0 to 7 inches; grayish brown (10YR 5/2) fine sandy loam, light gray (10YR 7/2) dry; weak medium granular structure; friable; common fine distinct yellowish brown (10YR 5/4) masses of iron-manganese accumulation in the matrix; strongly acid; abrupt smooth boundary.

Eg—7 to 18 inches; grayish brown (10YR 5/2) fine sandy loam; weak thick platy structure; friable; common medium prominent brownish yellow (10YR 6/6) masses of iron accumulation in the matrix; very strongly acid; clear smooth boundary.

BEg—18 to 20 inches; gray (10YR 5/1) loam; weak coarse subangular blocky structure; friable; few fine prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; very strongly acid; clear smooth boundary.

Btg1—20 to 33 inches; gray (10YR 5/1) clay loam; weak medium prismatic structure parting to moderate coarse subangular blocky; friable; common faint dark grayish brown (10YR 4/2) clay films on faces of peds; common medium faint light gray

Soil Survey of Pulaski County, Illinois

(10YR 7/2) iron depletions and common fine and medium prominent brownish yellow (10YR 6/6) and yellowish brown (10YR 5/8) masses of iron accumulation in the matrix; very strongly acid; gradual smooth boundary.

Btg2—33 to 37 inches; gray (10YR 6/1) sandy clay loam; weak coarse subangular blocky structure; friable; few faint grayish brown (10YR 5/2) clay films on faces of peds; common medium prominent yellowish brown (10YR 5/6 and 5/8) masses of iron in the matrix; strongly acid; clear smooth boundary.

Cg1—37 to 44 inches; gray (10YR 6/1) loam; massive; friable; common fine prominent yellowish brown (10YR 5/6 and 5/8) masses of iron accumulation in the matrix; common fine and medium concretions and stains (iron and manganese oxides); slightly acid; clear smooth boundary.

Cg2—44 to 80 inches; light brownish gray (10YR 6/2) fine sandy loam; massive; friable; common fine prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; neutral.

Range in Characteristics

Solum thickness: Commonly 35 to 40 inches; ranging from 30 to 50 inches

Reaction: Moderately acid to very strongly acid in the solum, except where surface layers have been limed

Particle-size control section: Average of between 20 and 35 percent clay and of more than 30 percent fine sand or coarser material

A or Ap horizon:

Hue—10YR

Value—3 to 5 (6 or 7 dry)

Chroma—1 or 2

Texture—fine sandy loam, loam, or very fine sandy loam

Eg horizon:

Hue—10YR or 2.5Y

Value—5 to 7

Chroma—1 or 2

Texture—loam, sandy loam, or fine sandy loam

BEg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 or 2

Texture—loam, sandy loam, or fine sandy loam

Btg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 or 2

Texture—sandy clay loam, clay loam, loam, or sandy loam

Cg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 or 2

Texture—fine sandy loam to sandy clay loam; thin strata of loamy sand, sand, fine gravel, loam, silt loam, or silty clay loam occur in some pedons

Sarpy Series

Taxonomic classification: Mixed, mesic Typic Udipsamments

Typical Pedon

Sarpy fine sand; in Monroe County, Illinois; on a nearly level to gently sloping natural levee in a cultivated field, at an elevation of about 393 feet above mean sea level, on Meissner Island, approximately 2 miles northwest of Valmeyer, about 2,060 feet west and 2,280 feet south of the northeast corner of sec. 6, T. 3 S., R. 11 W.; USGS Valmeyer, IL-MO topographic quadrangle; lat. 38 degrees 18 minutes 23 seconds N. and long. 90 degrees 21 minutes 50 seconds W.; UTM Zone 15, Easting 730496, Northing 4242892, NAD 83:

- Ap—0 to 9 inches; dark grayish brown (10YR 4/2) fine sand, light brownish gray (10YR 6/2) dry; weak fine granular structure; very friable; common very fine roots; slightly effervescent; slightly alkaline; abrupt smooth boundary.
- C1—9 to 19 inches; dark grayish brown (10YR 4/2) fine sand; single grain; loose; few very fine roots; strongly effervescent; slightly alkaline; gradual smooth boundary.
- C2—19 to 29 inches; dark grayish brown (10YR 4/2) fine sand; single grain; loose; few very fine roots; few coarse faint brown (10YR 4/3) masses of iron accumulation in the matrix; few fine dark masses of iron-manganese accumulation; strongly effervescent; slightly alkaline; gradual smooth boundary.
- C3—29 to 56 inches; dark grayish brown (10YR 4/2) fine sand; single grain; loose; few very fine roots; common medium faint brown (10YR 4/3) masses of iron accumulation in the matrix; common fine dark masses of iron-manganese accumulation; strongly effervescent; slightly alkaline; gradual smooth boundary.
- C4—56 to 80 inches; dark grayish brown (10YR 4/2) fine sand; single grain; loose; common medium faint brown (10YR 4/3) masses of iron accumulation in the matrix; strongly effervescent; slightly alkaline.

Range in Characteristics

Particle-size control section: Less than 10 percent silt plus clay and less than 40 percent silt plus clay plus very fine sand

Depth to carbonates: 0 to 60 inches

Ap or A horizon:

Hue—10YR or 2.5Y

Value—3 to 5 (4 to 6 dry)

Chroma—1 to 3

Texture—sand, loamy sand, loamy fine sand, sandy loam, or fine sand

C horizon:

Hue—10YR or 2.5Y

Value—4 to 6

Chroma—2 to 4

Texture—stratified loamy fine sand, loamy sand, fine sand, or sand

Sciotoville Series

Taxonomic classification: Fine-silty, mixed, active, mesic Aquic Fragiudalfs

Typical Pedon

Sciotoville silt loam; in Massac County, Illinois; in a nearly level field, at an elevation of about 342 feet above mean sea level, approximately 180 feet south of railroad track and 120 feet east of an old lane in the SE1/4 NW1/4 NE1/4 NW1/4 sec. 8, T. 16 S., R. 5 E.; USGS Metropolis, IL topographic quadrangle; lat. 37 degrees 08 minutes 38 seconds N. and long. 88 degrees 41 minutes 16 seconds W.; UTM Zone 16, Easting 354620, Northing 4132245, NAD 83:

Soil Survey of Pulaski County, Illinois

- Ap—0 to 8 inches; brown (10YR 4/3) silt loam, pale brown (10YR 6/3) dry; moderate fine granular structure; friable; many very fine very dark grayish brown (10YR 3/2) iron-manganese concretions; strongly acid; abrupt smooth boundary.
- BE—8 to 14 inches; yellowish brown (10YR 5/6) silt loam; weak fine subangular blocky structure; friable; common very fine black (N 2/0) and very dark grayish brown (10YR 3/2) iron-manganese concretions; very dark grayish brown (10YR 3/2) films in root channels; very strongly acid; clear smooth boundary.
- Bt—14 to 24 inches; dark yellowish brown (10YR 4/4) silt loam; few fine distinct pale brown (10YR 6/3) mottles; weak medium subangular blocky structure; friable; few faint yellowish brown (10YR 5/4) clay films on faces of peds; common fine black (N 2/0) and very dark grayish brown (10YR 3/2) iron-manganese concretions; very strongly acid; clear smooth boundary.
- Btx1—24 to 32 inches; brown (7.5YR 4/4) silt loam; coarse prismatic structure; very firm; few prominent light brownish gray (10YR 6/2) silt coatings and few distinct yellowish brown (10YR 5/4) clay films on faces of peds; few fine prominent gray (10YR 6/1) iron depletions; few fine distinct yellowish brown (10YR 5/6) masses of iron accumulation; few very fine very dark grayish brown (10YR 3/2) iron-manganese concretions; brittle; very strongly acid; gradual smooth boundary.
- Btx2—32 to 42 inches; brown (7.5YR 4/4) silt loam; moderate very coarse prismatic structure; very firm; common prominent light gray (10YR 7/2) silt coatings and few prominent light brownish gray (10YR 6/2) clay films on faces of peds; common fine distinct light gray (10YR 7/2) iron depletions; common very fine black (N 2/0) and very dark grayish brown (10YR 3/2) iron-manganese concretions; brittle; very strongly acid; gradual smooth boundary.
- BC—42 to 52 inches; brown (7.5YR 4/4) clay loam; weak medium prismatic structure; firm; few prominent grayish brown (10YR 5/2) clay films on faces of peds; common medium distinct light brownish gray (10YR 6/2) iron depletions; common very fine black (N 2/0) and very dark grayish brown (10YR 3/2) iron-manganese concretions; very strongly acid; gradual smooth boundary.
- C—52 to 80 inches; dark yellowish brown (10YR 4/4) silty clay loam; massive; firm; common fine distinct light brownish gray (10YR 6/2) iron depletions; common very fine black (N 2/0) and very dark grayish brown (10YR 3/2) iron-manganese concretions; strongly acid.

Range in Characteristics

Thickness of the solum: 45 to 80 inches

Depth to the fragic layer: 18 to 38 inches

Rock fragment content (mainly water-worn fine sandstone or quartzite): 0 to 2 percent, by volume, in the Ap, A, or E horizons; 0 to 5 percent in the Bt and Btx horizons; and 0 to 15 percent in the C horizon

Other characteristics: Some pedons have an E horizon

Ap or A horizon:

Hue—10YR or 7.5YR

Value—4 or 5

Chroma—2 or 3

Texture—silt loam

Reaction—slightly acid to strongly acid

BE horizon:

Hue—10YR or 7.5YR

Value—4 or 5

Chroma—3 to 6

Texture—silt loam or loam

Reaction—strongly acid or very strongly acid

Soil Survey of Pulaski County, Illinois

Bt horizon:

Hue—10YR, 7.5YR, or 5YR

Value—4 or 5

Chroma—3 to 6

Texture—silt loam, silty clay loam, or loam with a high percentage of very fine sand

Reaction—strongly acid or very strongly acid

Btx horizon:

Hue—10YR, 7.5YR, or 5YR

Value—4 to 6

Chroma—3 to 6

Texture—silt loam, silty clay loam, or loam

Reaction—strongly acid or very strongly acid in the upper part of horizon and moderately acid to very strongly acid in the lower part

BC horizon:

Hue—10YR or 7.5YR

Value—4 or 5

Chroma—3 to 6

Texture—silt loam, silty clay loam, clay loam, or loam

Reaction—moderately acid to very strongly acid

C horizon:

Hue—10YR or 7.5YR

Value—4 or 5

Chroma—3 to 6

Texture—horizon is stratified or has dominant textures of loam, silt loam, silty clay loam, or sandy loam with thin lenses of loamy sand in some pedons

Reaction—slightly acid to strongly acid

The Sciotoville soils in this survey area are considered a taxadjunct to the series because they do not have the coarseness of structure and degree of brittleness in the fragic layer as defined for the series. In addition, they have a slightly higher sand content in the particle-size control section than what is defined for the series. These differences, however, do not significantly affect the use and management of the soils. The taxadjunct classifies as fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs.

Sharon Series

Taxonomic classification: Coarse-silty, mixed, active, acid, mesic Oxyaquic Udifluvents

Typical Pedon

Sharon silt loam, frequently flooded; Franklin County, Illinois; at an elevation of about 424 feet above mean sea level, approximately 1,800 feet west and 140 feet south of the northeast corner of sec. 25, T. 7 S., R. 4 E.; USGS Akin, IL topographic quadrangle; lat. 37 degrees 53 minutes 32 seconds N. and long. 88 degrees 42 minutes 45 seconds W.; UTM Zone 16, Easting 349425, Northing 4195221, NAD 83:

Ap—0 to 3 inches; 60 percent brown (10YR 4/3) and 40 percent dark brown (10YR 3/3) silt loam, light brownish gray (10YR 6/2) dry; strong fine and medium granular structure; friable; common fine and medium roots throughout; slightly acid; abrupt smooth boundary.

A1—3 to 9 inches; 60 percent brown (10YR 4/3) and 40 percent dark brown (10YR 3/3) silt loam, light brownish gray (10YR 6/2) dry; strong medium granular

Soil Survey of Pulaski County, Illinois

- structure; friable; common fine and medium roots throughout; strongly acid; abrupt smooth boundary.
- A2—9 to 13 inches; very dark grayish brown (10YR 3/2) silt loam, grayish brown (10YR 5/2) dry; strong fine granular structure; friable; common fine and medium roots throughout; strongly acid; clear smooth boundary.
- CA—13 to 17 inches; 60 percent yellowish brown (10YR 5/6) and 40 percent brown (10YR 4/3) silt loam; massive; friable; few fine roots throughout; strongly acid; clear smooth boundary.
- C1—17 to 23 inches; yellowish brown (10YR 5/6) silt loam; weak medium subangular blocky structure; friable; few fine roots throughout; very strongly acid; clear smooth boundary.
- C2—23 to 29 inches; yellowish brown (10YR 5/4) silt loam; massive; friable; strongly acid; clear smooth boundary.
- C3—29 to 40 inches; yellowish brown (10YR 5/4) silt loam; massive; friable; very few faint brown (10YR 4/3) organic coats in root channels and pores; common fine distinct grayish brown (10YR 5/2) iron depletions; few fine rounded soft masses of iron-manganese; strongly acid; clear smooth boundary.
- C4—40 to 80 inches; yellowish brown (10YR 5/4) silt loam; massive; friable; few faint very dark grayish brown (10YR 3/2) organic coats in root channels and pores; common fine distinct grayish brown (10YR 5/2) iron depletions; few fine rounded soft masses of iron-manganese; moderately acid.

Range in Characteristics

Reaction: Strongly acid or very strongly acid from below the surface layer to a depth of 40 inches; ranging from very strongly acid to neutral below a depth of 40 inches

Particle-size control section: Average of less than 18 percent clay and less than 15 percent fine or coarser sand

Other characteristics: Some pedons contain a buried A horizon below a depth of 40 inches

Ap and A horizons:

Hue—10YR

Value—4 or 5; 2 or 3 in some uncultivated areas

Chroma—3 or 4; 2 in some uncultivated areas

Texture—silt loam

CA or Bw horizon (if it occurs):

Hue—10YR

Value—4 or 5

Chroma—3 to 6

Texture—silt loam

C horizon:

Hue—10YR, 7.5YR, or 2.5Y

Value—4 to 7

Chroma—2 to 6

Texture—silt loam; stratified loam, sandy loam, loamy sand, or sand occurs in some pedons

Stookey Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Typic Hapludalfs

Typical Pedon

Stookey silt loam; in Monroe County, Illinois; on a steep, west-facing convex slope

Soil Survey of Pulaski County, Illinois

under mixed hardwoods, at an elevation of about 530 feet above mean sea level, approximately 1 mile northeast of Fults, about 2,300 feet north of the intersection of Sutterville Road and Fults Road and 125 feet west of Sutterville Road, in the Renault Grant, T. 4 S., R. 10 W.; USGS Renault, IL topographic quadrangle: lat. 38 degrees 10 minutes 27 seconds N. and long. 90 degrees 12 minutes 05 seconds W.; UTM Zone 15, Easting 745152, Northing 4228824, NAD 83:

- A—0 to 3 inches; very dark grayish brown (10YR 3/2) silt loam, grayish brown (10YR 5/2) dry; moderate medium granular structure; friable; many very fine and fine roots; about 16 percent clay; moderately acid; abrupt smooth boundary.
- E—3 to 6 inches; dark yellowish brown (10YR 4/4) silt loam, light yellowish brown (10YR 6/4) dry; weak medium platy structure parting to weak medium granular; friable; common very fine and fine roots; about 18 percent clay; strongly acid; clear smooth boundary.
- Bt1—6 to 13 inches; brown (7.5YR 4/4) silt loam; moderate fine subangular blocky structure; friable; common very fine and fine roots; few distinct light gray (10YR 7/2, dry) clay depletions on faces of pedis; common faint brown (7.5YR 4/4) clay films on faces of pedis; about 25 percent clay; strongly acid; clear smooth boundary.
- Bt2—13 to 24 inches; brown (7.5YR 4/4) silt loam; weak fine prismatic structure parting to moderate fine subangular blocky; friable; common very fine and fine roots; common faint brown (7.5YR 4/4) clay films on faces of pedis; about 24 percent clay; strongly acid; gradual smooth boundary.
- Bt3—24 to 35 inches; brown (7.5YR 5/4) silt loam; weak fine prismatic structure parting to weak fine subangular blocky; friable; few very fine roots; common faint brown (7.5YR 4/4) clay films on faces of pedis; about 23 percent clay; moderately acid; gradual smooth boundary.
- Bt4—35 to 53 inches; brown (7.5YR 5/4) silt loam; weak fine prismatic structure parting to weak medium subangular blocky; friable; few very fine roots; few faint brown (7.5YR 4/4) clay films on faces of pedis; about 22 percent clay; moderately acid; gradual smooth boundary.
- BC—53 to 62 inches; brown (7.5YR 4/4) silt loam; weak medium subangular blocky structure; friable; few very fine roots; about 20 percent clay; slightly acid; gradual smooth boundary.
- C—62 to 80 inches; dark yellowish brown (10YR 4/4) silt loam; massive; very friable; few very fine roots; about 17 percent clay; neutral.

Range in Characteristics

Depth to the base of soil development: 40 to more than 80 inches

Thickness of loess: 80 inches or more

Particle-size control section: 18 to 27 percent clay; less than 7 percent fine sand or coarser material

Depth to carbonates: More than 60 inches

Other characteristics: Some pedons have an EB or a BE horizon

A horizon:

Hue—10YR

Value—3 to 5

Chroma—1 to 3

Texture—silt loam

E horizon:

Hue—10YR

Value—4 to 6 (6 to 8 dry)

Chroma—2 to 4

Texture—silt loam or silt

Bt and BC horizons:

Hue—5YR, 7.5YR, or 10YR

Value—4 to 6

Chroma—3 to 6

Texture—typically silt loam; silty clay loam in thin subhorizons in some pedons

C horizon:

Hue—7.5YR or 10YR

Value—4 to 6

Chroma—2 to 6

Texture—silt loam or silt

Stoy Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Fragiaquic Hapludalfs

Typical Pedon

Stoy silt loam; in Gallatin County, Illinois; in a nearly level area in a cultivated field, at an elevation of about 389 feet above mean sea level, approximately 2 miles southwest of Omaha, about 1,320 feet east of the southwest corner of sec. 28, T. 7 S., R. 8 E.; USGS Norris City, IL topographic quadrangle; lat. 37 degrees 52 minutes 45 seconds N. and long. 88 degrees 19 minutes 58 seconds W.; UTM Zone 16, Easting 382795, Northing 4193237, NAD 83:

- Ap—0 to 6 inches; brown (10YR 4/3) silt loam; weak fine granular structure; friable; many roots; few fine concretions of iron and manganese oxides throughout; very strongly acid; abrupt smooth boundary.
- E1—6 to 9 inches; mixed light yellowish brown (10YR 6/4) and yellowish brown (10YR 5/4) silt loam; weak thin platy structure parting to weak fine granular; friable; common roots; common very dark grayish brown (10YR 3/2) organic stains; few medium distinct light brownish gray (10YR 6/2) iron depletions in the matrix; many fine concretions of iron and manganese oxides throughout; very strongly acid; clear smooth boundary.
- E2—9 to 13 inches; yellowish brown (10YR 5/4) silt loam; weak fine and medium granular structure; friable; common roots; common medium distinct light brownish gray (10YR 6/2) iron depletions and yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; many fine concretions of iron and manganese oxides throughout; very strongly acid; clear smooth boundary.
- BE—13 to 16 inches; yellowish brown (10YR 5/6) silty clay loam; weak fine and medium subangular blocky structure; friable; common roots; few medium prominent light brownish gray (10YR 6/2) iron depletions in the matrix; many fine concretions of iron and manganese oxides throughout; very strongly acid; clear smooth boundary.
- Bt1—16 to 24 inches; yellowish brown (10YR 5/8) silty clay loam; moderate fine subangular blocky structure; firm; common roots; common prominent brown (10YR 4/3) clay films on faces of peds; common prominent light brownish gray (10YR 6/2) clay depletions on faces of peds, light gray (10YR 7/1) dry; few fine prominent light brownish gray (10YR 6/2) and brown (10YR 5/3) iron depletions in the matrix; many fine concretions of iron and manganese oxides throughout; very strongly acid; clear smooth boundary.
- Bt2—24 to 27 inches; yellowish brown (10YR 5/8 and 5/4) silty clay loam; moderate coarse subangular blocky structure parting to moderate fine and very fine angular blocky; firm; common roots; many prominent light brownish gray (10YR 6/2) clay depletions on faces of larger peds and many distinct brown (10YR 4/3) clay films on faces of smaller angular peds; few fine prominent light gray (10YR 7/1) iron

depletions in the matrix; many medium concretions of iron and manganese oxides throughout; many black (10YR 2/1) threadlike manganese coatings and spherical manganese masses; very strongly acid; clear smooth boundary.

Bt3—27 to 32 inches; yellowish brown (10YR 5/8 and 5/4) silty clay loam; moderate medium subangular blocky structure; very firm; common roots; many distinct brown (10YR 4/3) clay films on faces of peds; few fine prominent light gray (10YR 7/1) and light brownish gray (10YR 6/2) iron depletions in the matrix; many fine concretions of iron and manganese oxides throughout; common black (10YR 2/1) threadlike manganese coatings and spherical manganese masses; very strongly acid; gradual smooth boundary.

Btx1—32 to 36 inches; mottled grayish brown (10YR 5/2), brown (10YR 5/3), and yellowish brown (10YR 5/8) silty clay loam; weak coarse subangular blocky structure; firm; common roots; common distinct brown (10YR 4/3) clay films on faces of peds; few fine distinct light gray (10YR 7/1) iron depletions in the matrix; many fine concretions of iron and manganese oxides throughout; very strongly acid; gradual smooth boundary.

Btx2—36 to 45 inches; mottled grayish brown (10YR 5/2), brown (10YR 5/3), and yellowish brown (10YR 5/8) silty clay loam; weak coarse prismatic structure; extremely firm; few roots; few distinct brown (10YR 4/3) clay films on faces of peds; common fine and medium distinct light gray (10YR 7/1) iron depletions in the matrix; many fine concretions of iron and manganese oxides throughout; very strongly acid; gradual smooth boundary.

Bx—45 to 80 inches; mottled grayish brown (10YR 5/2), pale brown (10YR 6/3), yellowish brown (10YR 5/8), and light gray (10YR 7/1) silt loam; weak medium prismatic structure; extremely firm; few very dark grayish brown (10YR 3/2) threadlike manganese coatings and spherical manganese masses; many fine concretions of iron and manganese oxides; very strongly acid.

Range in Characteristics

Depth to the base of the argillic horizon: 35 to 65 inches

Depth to the fragic soil properties: 25 to about 45 inches

Particle-size control section: Average of 27 to 35 percent clay

Series control section: Less than 10 percent fine sand or coarser material throughout the profile

Ap horizon:

Hue—10YR

Value—4 or 5

Chroma—2 or 3

Texture—silt loam

A horizon (in undisturbed areas):

Hue—10YR

Value—2 or 3

Chroma—1 or 2

Texture—commonly silt loam; less commonly silty clay loam

E, BE, and B/E horizons:

Hue—10YR

Value—5 or 6

Chroma—3 or 4

Texture—commonly silt loam; silty clay loam in some BE horizons

Bt horizon:

Hue—10YR or 2.5Y

Value—4 to 6

Chroma—2 to 8
Texture—silty clay loam or silt loam

Btx and Bx horizons:

Hue—10YR
Value—5 to 7
Chroma—2 to 8
Texture—silty clay loam or silt loam
Clay content—24 to 35 percent

C horizon (if it occurs):

Hue—10YR
Value—5 to 7
Chroma—1 to 8
Texture—silt loam
Clay content—20 to 27 percent

Tice Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls

Typical Pedon

Tice silty clay loam; in Monroe County, Illinois; in a nearly level area in a cultivated field, at an elevation of about 398 feet above mean sea level, approximately $\frac{1}{2}$ mile northwest of Chalfin Bridge, about 550 feet southwest of the railroad tracks and 150 feet southeast of Outlet Road, in parcel S. 707, T. 4 S., R. 11 W; USGS Selma, IL-MO topographic quadrangle; lat. 38 degrees 12 minutes 53 seconds N. and long. 90 degrees 16 minutes 37 seconds W.; UTM Zone 15, Easting 738393, Northing 4233146, NAD 83:

- Ap—0 to 9 inches; very dark brown (10YR 2/2) silty clay loam, dark grayish brown (10YR 4/2) dry; moderate fine granular structure; friable; many very fine roots; neutral; abrupt smooth boundary.
- A—9 to 16 inches; very dark grayish brown (10YR 3/2) silty clay loam, grayish brown (10YR 5/2) dry; moderate fine subangular blocky structure; friable; many very fine roots; common distinct very dark brown (10YR 2/2) organic coatings on faces of peds; neutral; clear smooth boundary.
- Bw1—16 to 24 inches; brown (10YR 4/3) silty clay loam; moderate fine subangular blocky structure; friable; common very fine roots; many distinct very dark grayish brown (10YR 3/2) organo-clay films on faces of peds; few fine faint dark grayish brown (10YR 4/2) iron depletions in the matrix; neutral; clear smooth boundary.
- Bw2—24 to 35 inches; brown (10YR 4/3) silty clay loam; weak fine prismatic structure parting to moderate fine subangular blocky; firm; common very fine roots; many distinct very dark grayish brown (10YR 3/2) organo-clay films on faces of peds; few fine faint dark grayish brown (10YR 4/2) iron depletions in the matrix; neutral; clear smooth boundary.
- Bg1—35 to 47 inches; dark grayish brown (10YR 4/2) silty clay loam; moderate fine prismatic structure parting to moderate medium subangular blocky; firm; common very fine roots; many distinct very dark grayish brown (10YR 3/2) organo-clay films on faces of peds; few fine distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; few fine rounded dark brown (7.5YR 3/3) masses of iron-manganese accumulation; neutral; gradual smooth boundary.
- Bg2—47 to 61 inches; dark grayish brown (10YR 4/2) silty clay loam; moderate fine prismatic structure parting to moderate medium angular blocky; firm; few very fine roots; many prominent very dark grayish brown (10YR 3/2) organo-clay films on

Soil Survey of Pulaski County, Illinois

faces of peds; common fine and medium distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; few fine rounded dark brown (7.5YR 3/3) masses of iron-manganese accumulation; neutral; gradual smooth boundary.

Bg3—61 to 72 inches; grayish brown (10YR 5/2) silty clay loam; weak fine prismatic structure; firm; very fine roots; common distinct very dark grayish brown (10YR 3/2) organo-clay films on vertical faces of peds; many fine and medium distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; few fine and medium irregular very dark brown (7.5YR 2.5/2) and strong brown (7.5YR 4/6) masses of iron-manganese accumulation; slightly acid; clear smooth boundary.

BCg—72 to 80 inches; grayish brown (10YR 5/2) silty clay loam; weak medium prismatic structure; firm; few very fine roots; few faint dark grayish brown (10YR 4/2) clay films on vertical faces of peds and in pores and root channels; common fine and medium faint brown (10YR 4/3) and few fine prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; few fine and medium irregular black (7.5YR 2.5/1) masses of iron-manganese accumulation; slightly acid.

Range in Characteristics

Depth to the base of soil development: 30 to more than 80 inches

Thickness of the mollic epipedon: 10 to 24 inches

Particle-size control section: Average of 22 to 35 percent clay and less than 15 percent sand

Other characteristics: Some pedons have an AB or BA horizon

Ap or A horizon:

Hue—10YR

Value—2 or 3

Chroma—1 or 2

Texture—silty clay loam

Bw and Bg horizons:

Hue—dominantly 10YR or 2.5Y; 5Y below a depth of 50 inches in some pedons

Value—4 or 5

Chroma—dominantly 2 to 4; 1 below a depth of 50 inches in some pedons

Texture—silty clay loam or silt loam

BC or BCg horizon (if it occurs):

Hue—10YR, 2.5Y, or 5Y

Value—4 or 5

Chroma—1 to 4

Texture—silty clay loam or silt loam; stratified loam, clay loam, or sandy loam in some pedons

C or Cg horizon (if it occurs):

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 to 3

Texture—stratified silty clay loam, clay loam, loam, sandy loam, or silt loam

Wakeland Series

Taxonomic classification: Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents

Typical Pedon

Wakeland silt loam; in Madison County, Illinois; in a nearly level area in a cultivated

Soil Survey of Pulaski County, Illinois

field, at an elevation of about 485 feet above mean sea level, approximately 2 miles northeast of Highland, about 1,600 feet north and 1,330 feet east of the center of sec. 34, T. 4 N., R. 5 W.; USGS Grantfork, IL topographic quadrangle; lat. 38 degrees 45 minutes 18 seconds N. and long. 89 degrees 38 minutes 27 seconds W.; UTM Zone 16, Easting 270517, Northing 4292906, NAD 83:

- Ap—0 to 8 inches; dark grayish brown (10YR 4/2) silt loam, light brownish gray (10YR 6/2) dry; very thin lenses of light gray (10YR 7/1) silt and very fine sand; weak fine granular structure; friable; many very fine and few fine roots; few fine continuous tubular pores; neutral; clear smooth boundary.
- Cg1—8 to 34 inches; dark grayish brown (10YR 4/2) silt loam; thin lenses of light brownish gray (10YR 6/2) silt and very fine sand; massive; friable; few very fine roots; common very fine and fine continuous tubular pores; few fine prominent yellowish brown (10YR 5/8) masses of iron accumulation in the matrix; neutral; gradual smooth boundary.
- Cg2—34 to 44 inches; dark grayish brown (10YR 4/2) silt loam; massive; friable; few very fine roots; few very fine continuous tubular pores; common medium faint light brownish gray (10YR 6/2) iron depletions and common medium prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; neutral; clear smooth boundary.
- Cg3—44 to 68 inches; grayish brown (10YR 5/2) silt loam; massive; friable; common medium faint dark grayish brown (10YR 4/2) and light brownish gray (10YR 6/2) iron depletions and common fine prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; few medium rounded dark brown (7.5YR 3/2) masses of iron-manganese nodules; slightly acid; clear smooth boundary.
- Ab—68 to 80 inches; very dark grayish brown (10YR 3/2) silt loam; moderate fine subangular blocky structure; friable; few fine rounded black (10YR 2/1) iron-manganese nodules; slightly acid.

Range in Characteristics

Particle-size control section: Average of 10 to 18 percent clay and less than 15 percent fine sand or coarser material

Depth to a buried soil (if it occurs): More than 60 inches

Ap horizon:

Hue—10YR
Value—4 or 5
Chroma—2 to 4
Texture—silt loam

A horizon (if it occurs):

Hue—10YR
Value—3 or 4
Chroma—1
Texture—silt loam
Thickness—1 to 3 inches

C or Cg horizon (upper part):

Hue—10YR or 7.5YR
Value—4 to 6
Chroma—1 to 4
Texture—silt loam

C or Cg horizon (lower part):

Hue—10YR or 2.5Y
Value—4 to 7

Soil Survey of Pulaski County, Illinois

Chroma—1 to 6

Texture—silt loam; loam and thin strata of fine sandy loam or sandy loam occur below a depth of 40 inches

Ab horizon:

Hue—10YR

Value—2 or 3

Chroma—1 or 2

Texture—silt loam

Ware Series

Taxonomic classification: Coarse-loamy, mixed, active, thermic Fluventic Hapludolls

Typical Pedon

Ware loam; in Jackson County, Illinois; in a nearly level to undulating area of a cultivated field, at an elevation of about 357 feet above mean sea level, approximately 1/4 mile southeast of Neunert, about 660 feet south and 690 feet east of the northwest corner of sec. 27, T. 9 S., R. 4 W.; USGS Altenburg, MO-IL topographic quadrangle; lat. 37 degrees 43 minutes 15 seconds N. and long. 89 degrees 32 minutes 35 seconds W.; UTM Zone 16, Easting 275860, Northing 4177875, NAD 83:

- Ap—0 to 7 inches; very dark grayish brown (10YR 3/2) loam, grayish brown (10YR 5/2) dry; weak medium granular structure; friable; common roots; moderately acid; abrupt smooth boundary.
- A1—7 to 11 inches; very dark brown (10YR 2/2) loam, dark grayish brown (10YR 4/2) dry; weak medium granular structure; friable; few roots; slightly acid; clear smooth boundary.
- A2—11 to 14 inches; very dark brown (10YR 2/2) loam, dark grayish brown (10YR 4/2) dry; weak coarse granular structure; friable; few roots; slightly acid; clear smooth boundary.
- Bw—14 to 21 inches; brown (10YR 4/3) and very dark grayish brown (10YR 3/2) very fine sandy loam, brown (10YR 5/3) dry; weak medium subangular blocky structure; very friable; few roots; slightly acid; clear smooth boundary.
- C1—21 to 30 inches; stratified yellowish brown (10YR 5/4) loamy very fine sand and brown (10YR 4/3) and very dark grayish brown (10YR 3/2) very fine sandy loam; single grain; very friable; few roots; neutral; clear smooth boundary.
- C2—30 to 38 inches; yellowish brown (10YR 5/4) and brown (10YR 4/3) very fine sandy loam; massive; very friable; few dark brown (10YR 3/3) lenses; neutral; gradual smooth boundary.
- C3—38 to 54 inches; yellowish brown (10YR 5/4) very fine sandy loam; massive; very friable; few dark brown (10YR 3/3) lenses in upper 6 inches of horizon and pale brown (10YR 6/3) streaks in lower part; neutral; clear smooth boundary.
- C4—54 to 80 inches; grayish brown (10YR 5/2), dark yellowish brown (10YR 4/4), and yellowish brown (10YR 5/6) very fine sandy loam; massive; very friable; neutral.

Range in Characteristics

Thickness of the mollic epipedon: 10 to 23 inches

Thickness of the solum: 15 to 30 inches

Organic carbon distribution: Irregular decrease of organic matter between depths of 10 and 50 inches

Ap or A horizon:

Hue—10YR

Value—2 or 3

Soil Survey of Pulaski County, Illinois

Chroma—1 or 2

Texture—loam, silt loam, or very fine sandy loam

Bw horizon:

Hue—10YR

Value—3 to 5

Chroma—typically 3 or 4; 2 in some pedons that have been deeply tilled

Texture—loam or very fine sandy loam; horizon is stratified with coarser or finer textures in some pedons

C horizon:

Hue—10YR

Value—4 to 6

Chroma—2 to 4

Texture—dominantly very fine sandy loam to fine sand but ranging from silt loam to sand; horizon is stratified in many pedons

Weir Series

Taxonomic classification: Fine, smectitic, mesic Typic Endoaqualfs

Typical Pedon

Weir silt loam; in Lawrence County, Illinois; in a nearly level cultivated field, at an elevation of about 495 feet above mean sea level, approximately 2 miles west of Lawrenceville, about 200 feet south and 50 feet east of the northwest corner of sec. 2, T. 3 N., R. 12 W.; USGS Lawrenceville, IL topographic quadrangle; lat. 38 degrees 43 minutes 53 seconds N. and long. 87 degrees 43 minutes 18 seconds W.; UTM 16, Easting 437271, Northing 4287222, NAD 83:

Ap—0 to 8 inches; dark grayish brown (10YR 4/2) silt loam, light brownish gray (10YR 6/2) dry; weak fine granular structure; friable; moderately acid; abrupt smooth boundary.

Eg—8 to 17 inches; light brownish gray (10YR 6/2) silt loam; weak thin platy structure; friable; few medium distinct light yellowish brown (10YR 6/4) masses of iron accumulation in the matrix; very strongly acid; clear smooth boundary.

Btg1—17 to 21 inches; gray (10YR 5/1) silty clay loam; weak medium prismatic structure parting to moderate medium angular blocky; firm; common distinct grayish brown (10YR 5/2) clay films on faces of peds; common medium distinct brown (10YR 5/3) and yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; very strongly acid; clear smooth boundary.

Btg2—21 to 30 inches; gray (10YR 5/1) silty clay loam; moderate medium prismatic structure parting to moderate medium angular blocky; firm; common distinct grayish brown (10YR 5/2) clay films on faces of peds; many medium distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; very strongly acid; gradual smooth boundary.

Btg3—30 to 39 inches; gray (10YR 5/1) silty clay loam; moderate medium subangular blocky structure; firm; common distinct dark grayish brown (10YR 4/2) clay films on faces of peds; many medium distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; very strongly acid; gradual smooth boundary.

BCg—39 to 46 inches; gray (10YR 6/1) silt loam; weak coarse subangular blocky structure; firm; few faint dark grayish brown (10YR 4/2) clay films on faces of peds; many medium distinct yellowish brown (10YR 5/4) masses of iron accumulation in the matrix; strongly acid; gradual smooth boundary.

Cg—46 to 80 inches; light brownish gray (10YR 6/2) silt loam; massive; friable; many medium prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; moderately acid.

Range in Characteristics

Depth to the base of the argillic horizon: 35 to more than 60 inches

Other characteristics: The particle-size control section averages between 35 and 40 percent clay; individual subhorizons contain as much as 45 percent clay; the series control section has less than 10 percent fine sand or coarser material; some pedons have a BE horizon

Ap or A horizon:

Hue—10YR

Value—4 or 5

Chroma—1 or 2

Reaction—very strongly acid to moderately acid; ranging to neutral in pedons that have been limed

Texture—silt loam

Eg horizon:

Hue—10YR or 2.5Y

Value—5 to 7

Chroma—2

Texture—silt loam

Reaction—very strongly acid to moderately acid; ranging to neutral in pedons that have been limed

Btg horizon:

Hue—10YR, 2.5Y or 5Y

Value—4 to 6

Chroma—1 or 2

Texture—silty clay loam or silty clay

Reaction—very strongly acid or strongly acid

BCg horizon:

Hue—10YR, 2.5Y, or 5Y

Value—4 to 6

Chroma—1 or 2

Texture—silt loam or silty clay loam

Clay content—20 to 30 percent

Reaction—very strongly acid to moderately acid

Cg horizon:

Hue—10YR, 2.5Y, 5Y, or neutral

Value—4 to 6

Chroma—0 to 2

Texture—silt loam

Clay content—20 to 27 percent

Reaction—very strongly acid to slightly acid

Wheeling Series

Taxonomic classification: Fine-loamy, mixed, active, mesic Ultic Hapludalfs

Typical Pedon

Wheeling silt loam, eroded; in Massac County, Illinois; in a gently sloping wooded area, at an elevation of about 341 feet above mean sea level, approximately 170 feet north of the north end of a bridge and 105 feet west of the centerline of a blacktop road in the NE1/4 SE1/4 NE1/4 SW1/4 of sec. 32, T. 14 S., R. 4 E.; USGS Mermet, IL

Soil Survey of Pulaski County, Illinois

topographic quadrangle; lat. 37 degrees 15 minutes 20 seconds N. and long. 88 degrees 47 minutes 39 seconds W.; UTM 16, Easting 340886, Northing 4124732, NAD 83:

- Ap—0 to 5 inches; dark brown (10YR 3/3) silt loam, very dark grayish brown (10YR 3/2) crushed and brown (10YR 5/3) dry; moderate fine granular structure; friable; many roots; strongly acid; abrupt smooth boundary.
- E—5 to 7 inches; yellowish brown (10YR 5/4) silt loam; weak fine granular structure; friable; many roots; moderately acid; clear smooth boundary.
- BE—7 to 10 inches; yellowish brown (10YR 5/4) silt loam to loam; weak fine subangular blocky structure; friable; many roots; common very fine and fine pores; few faint brown (7.5YR 4/4) clay films in root and worm channels; strongly acid; clear smooth boundary.
- Bt1—10 to 23 inches; brown (7.5YR 4/4) clay loam; strong fine and medium prismatic structure parting to strong fine and medium angular blocky; friable; common roots; common faint brown (7.5YR 4/4) clay films on faces of peds; few very fine black (N 2/0) iron-manganese stains; strongly acid; clear smooth boundary.
- Bt2—23 to 30 inches; brown (7.5YR 4/4) clay loam; moderate medium prismatic structure parting to moderate fine and medium subangular blocky; friable; common roots; few very fine pores; many faint brown (7.5YR 4/4) clay films on faces of peds; few very fine black (N 2/0) iron-manganese stains; strongly acid; clear smooth boundary.
- Bt3—30 to 38 inches; brown (7.5YR 4/4) sandy clay loam; weak medium prismatic structure parting to moderate medium subangular blocky; friable; few roots; few very fine pores; common faint brown (7.5YR 4/4) clay films on faces of peds; few very fine black (N 2/0) iron-manganese stains 1 to 2 inches in diameter; strongly acid; clear smooth boundary.
- BC—38 to 49 inches; brown (7.5YR 4/4) sandy clay loam; weak medium prismatic structure parting to weak medium subangular blocky; friable; few roots; few very fine pores; few faint brown (7.5YR 4/4) clay films on faces of peds; few fine distinct light yellowish brown (10YR 6/4) masses of iron accumulation; very strongly acid; clear smooth boundary.
- C—49 to 80 inches; brown (7.5YR 4/4) sandy loam: massive; friable; strongly acid.

Range in Characteristics

Solum thickness: 40 to 60 inches or more

Particle-size control section: 18 to 30 percent clay

Rock fragments: 0 to 35 percent; in some areas there are noticeable mica flakes throughout the profile

Reaction: Strongly acid or moderately acid throughout the profile in unlimed pedons

Ap or A horizon:

Hue—10YR or 7.5YR

Value—3 to 5

Chroma—2 to 4

Texture—fine sandy loam, sandy loam, loam, or silt loam

E horizon:

Hue—10YR or 7.5YR

Value—5 or 6

Chroma—2 to 4

Texture—fine sandy loam, sandy loam, loam, or silt loam

BE horizon (if it occurs):

Hue—10YR or 7.5YR

Value—4 or 5

Soil Survey of Pulaski County, Illinois

Chroma—3 to 6

Texture—commonly loam or silt loam; less commonly fine sandy loam or sandy loam

Bt horizon:

Hue—10YR or 7.5YR

Value—4 or 5

Chroma—3 to 6

Texture—loam, silt loam, clay loam, or silty clay loam

BC horizon:

Hue—10YR or 7.5YR

Value—4 or 5

Chroma—3 to 6

Texture—very fine sandy loam or sandy loam

C horizon:

Hue—10YR or 7.5YR

Value—4 or 5

Chroma—3 to 6

Texture—stratified sandy loam, fine sandy loam, loamy sand, or loamy fine sand

Winfield Series

Taxonomic classification: Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs

Typical Pedon

Winfield silt loam; in St. Clair County, Illinois; on a south-facing slope, in a cultivated field, at an elevation of about 540 feet above mean sea level, approximately 3 miles north of O'Fallon, about 205 feet east and 610 feet south of the northwest corner of sec. 9, T. 2 N., R. 7 W.; USGS Collinsville, IL topographic quadrangle; lat. 38 degrees 38 minutes 32 seconds N. and long. 89 degrees 53 minutes 27 seconds W.; UTM Zone 16, Easting 248394, Northing 4280830, NAD 83:

Ap—0 to 9 inches; brown (10YR 4/3) silt loam, pale brown (10YR 6/3) dry; moderate fine granular structure; friable; many very fine roots; about 22 percent clay; neutral; abrupt smooth boundary.

E—9 to 13 inches; brown (10YR 5/3) silt loam, pale brown (10YR 6/3) dry; weak medium platy structure parting to moderate very fine subangular blocky; friable; common very fine roots; few faint light gray (10YR 7/2, dry) clay depletions on faces of peds; few fine rounded black (10YR 2/1) iron-manganese nodules with sharp boundaries; about 25 percent clay; moderately acid; clear smooth boundary.

Bt1—13 to 21 inches; yellowish brown (10YR 5/4) silty clay loam; moderate fine subangular blocky structure; firm; common very fine roots; few distinct light gray (10YR 7/2, dry) clay depletions along root channels; many distinct brown (10YR 4/3) clay films on faces of peds; common fine and medium rounded black (10YR 2/1) iron-manganese nodules with sharp strong brown (7.5YR 4/6) boundaries; about 33 percent clay; moderately acid; clear smooth boundary.

Bt2—21 to 30 inches; yellowish brown (10YR 5/4) silty clay loam; moderate medium subangular blocky structure; firm; common very fine roots; many distinct dark yellowish brown (10YR 4/4) clay films on faces of peds; common fine distinct light brownish gray (10YR 6/2) iron depletions and few fine distinct strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; few fine rounded black (10YR 2/1) iron-manganese nodules with sharp strong brown (7.5YR 4/6) boundaries; about 32 percent clay; strongly acid; gradual smooth boundary.

Soil Survey of Pulaski County, Illinois

- Btg1—30 to 40 inches; light brownish gray (10YR 6/2) silty clay loam; weak fine prismatic structure parting to moderate medium subangular blocky; firm; few very fine roots; common distinct dark yellowish brown (10YR 4/4) clay films on faces of peds; common fine and medium distinct yellowish brown (10YR 5/4) and few fine prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common fine and medium irregular black (10YR 2/1) masses of iron-manganese accumulation with clear strong brown (7.5YR 4/6) boundaries; about 30 percent clay; moderately acid; clear smooth boundary.
- Btg2—40 to 56 inches; light brownish gray (10YR 6/2) silty clay loam; weak medium prismatic structure parting to weak medium and coarse subangular blocky; firm; few very fine roots; common distinct dark yellowish brown (10YR 4/4) clay films on faces of peds; many medium and coarse prominent strong brown (7.5YR 5/6) masses of iron accumulation in the matrix; common fine and medium irregular black (10YR 2/1) masses of iron-manganese accumulation with clear strong brown (7.5YR 4/6) boundaries; about 28 percent clay; moderately acid; clear smooth boundary.
- Btg3—56 to 62 inches; light brownish gray (2.5Y 6/2) silt loam; weak medium angular blocky structure; friable; few very fine roots; few faint brown (10YR 5/3) clay films on faces of peds; common fine and medium prominent strong brown (7.5YR 5/8) masses of iron accumulation in the matrix; common medium irregular black (10YR 2/1) masses of iron-manganese accumulation with diffuse strong brown (7.5YR 5/6) boundaries; about 25 percent clay; slightly acid; gradual smooth boundary.
- Cg—62 to 80 inches; light brownish gray (2.5Y 6/2) silt loam; massive; friable; common medium and coarse prominent strong brown (7.5YR 4/6) and few fine prominent yellowish brown (10YR 5/6) masses of iron accumulation in the matrix; common medium and coarse irregular black (10YR 2/1) masses of iron-manganese accumulation with diffuse strong brown (7.5YR 5/6) boundaries; about 20 percent clay; neutral.

Range in Characteristics

Depth to the base of the argillic horizon: 35 to 65 inches

Thickness of loess: 80 inches or more

Particle-size control section: 27 to 35 percent clay; less than 7 percent sand

Ap or A horizon:

Hue—10YR

Value—3 to 5

Chroma—2 or 3

Texture—silt loam

E horizon:

Hue—10YR

Value—4 to 6 (6 to 8 dry)

Chroma—2 to 4

Texture—silt loam

BE horizon (if it occurs):

Hue—7.5YR or 10YR

Value—4 or 5

Chroma—3 or 4

Texture—silt loam or silty clay loam

Bt horizon (upper part):

Hue—7.5YR or 10YR

Value—4 or 5

Soil Survey of Pulaski County, Illinois

Chroma—3 to 6

Texture—silty clay loam

Bt horizon (lower part) and Btg horizon:

Hue—7.5YR, 10YR, or 2.5Y

Value—4 to 6

Chroma—1 to 6

Texture—silt loam or silty clay loam

C or Cg horizon:

Hue—10YR or 2.5Y

Value—4 to 6

Chroma—1 to 4

Texture—silt loam

Formation of the Soils

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

Factors of Soil Formation

A soil is a three-dimensional natural body consisting of mineral and organic material that can support plant growth. The nature of any soil at a given site is the result of the interaction of the factors of soil formation and their influence on the process of soil formation.

The following paragraphs describe the factors of soil formation and their effect on the soils in Pulaski County. Soil-forming processes act on deposited or accumulated geologic material. They slowly change the material into a soil. The characteristics of the soil at any given point are determined by (1) the physical and mineralogical composition of the parent material; (2) the plant and animal life on and in the soil; (3) the topography, or lay of the land; (4) the climate under which the soil material has accumulated and existed since accumulation; and (5) the length of time that the forces of soil formation have acted on the soil material (6).

Climate and plants and animals act directly on parent material, which is modified by topography over time. Theoretically, if all these factors were identical at different sites, the soils at these sites would be identical. The variation that exists among soils is the result of unique combinations of the soil-forming factors. Soils are continually evolving in response to these factors.

Parent Material

Parent material is derived mainly from the weathering of rock, but it may have been sorted and moved from place to place by glaciers, wind, and water. The soils of Pulaski County formed mostly in alluvium (such as Petrolia and Karnak soils) or lakebed sediments (such as Hurst and Colp soils), which are deposited by water, and in loess (such as Menfro and Stookey soils), which is deposited by wind. A few soils, such as Clarksville soils, have formed partially in residuum weathered from the underlying rock.

Most of the soils in the county are on terraces and flood plains. These soils developed mainly in old alluvium on terraces and in recent alluvium on flood plains. The texture of the alluvium ranges from sand or loamy sand to silty clay or clay.

The soils on uplands formed mainly in loess, or windblown silt. The thickness of the loess on upland ridgetops and in level and nearly level upland areas ranges from more than 300 inches to about 200 inches. The large Pleistocene alluvial plain, which included the Mississippi River Valley and the old Ohio River Valley now occupied by the Cache River, are thought to be the main sources of the loess deposits in the county. In some places there are three layers of loess—Peoria loess over Roxana loess over Loveland loess. In many places however, the lowest layer—the Loveland loess and the soil that formed in it—was removed by erosion before new material was deposited. Where the Loveland loess does occur, it overlies residuum, bedrock, or

Coastal Plain gravel. The second layer—the Farmdale or Roxana loess—generally makes up from a third to a half of the total thickness of the loess. The uppermost layer—the Peorian loess—ordinarily is the thickest and is the material in which the present soils developed.

Clarksville soils developed in thin deposits of loess over cherty material, which in some places is residuum weathered from cherty limestone but in most places is thick beds of relatively pure chert.

On the uplands in Pulaski County, there is a general relationship between the thickness of the loess and the degree of soil development. For example, Stookey, Menfro, and Winfield soils formed, for the most part, in thicker deposits of loess than the more developed Stoy soils. Hosmer soils formed in thinner loess deposits on summits, shoulders, and backslopes. The higher degree of development of Hosmer soils in these areas may be due to lateral seepage and the consequent higher moisture content rather than to the thickness of the loess. The formation of a fragipan in some of the loess soils on uplands, particularly in Hosmer soils, is thought to be related to the texture of the parent material, the stage of development, and the presence of a temporary or perched water table.

Climate and Vegetation

Climate largely determines the rate of weathering, and it also influences the type of vegetation that grows on soils. The humid temperate climate of Pulaski County is conducive to the relatively rapid breakdown of minerals, to the formation of clay, and to the translocation of these materials downward in the soil profile. It is also conducive to the growth of deciduous forest, which for a significant period prior to settlement covered all of the uplands and most of the terraces and flood plains. As a result, most of the soils have a relatively light-colored surface horizon. Examples of these soils are Menfro and Sciotoville. Ware soils on terraces and Cairo soils on the flood plains are examples of soils that formed predominantly under grass vegetation. Armiesburg soils on flood plains are examples of soils that probably were influenced by grass to some extent and probably developed under mixed stands of grass and forest.

Relief

Under given climatic conditions and in uniform parent material, relief largely controls the amount of moisture in the soil. It influences the amount of runoff, the amount of infiltration, and the degree of erosion. In uniform materials, such as loess, differences in natural soil drainage generally are closely associated with slope, or relief. Examples are the well drained Menfro soils and the moderately well drained Winfield soils, both of which formed in thick loess and are commonly adjacent on the landscape.

On steeper slopes, where the potential for surface runoff is high, soils tend to be thinner and their horizons generally are not as strongly expressed. An example is the well drained Stookey soils.

Time

The length of time necessary for a soil to develop depends on the other factors of soil formation. Soil development generally is faster in a humid climate that supports good vegetation than in a dry climate that supports little vegetation. Soils normally become more strongly developed with an increase in time of exposure to the weathering processes. Sharon soils on flood plains are an example of weakly developed soils. Clarksville soils on upland side slopes are an example of strongly developed soils.

Processes of Soil Formation

Soil forms through the complex interaction of four general processes (13). These processes are additions, transformations, removals, and transfers. The degree of interaction of each of these processes in soil formation varies, resulting in the variety of soils seen on the landscape.

Additions to the soil can occur directly through the deposition of sediment to the soil surface from flooding or through the accumulation of wind-blown sediment. The accumulation and incorporation of organic matter into the A horizon of mineral soils is also an addition. The most striking example of this addition is the formation of the mollic epipedon. The mollic epipedon forms in an environment that features optimum amounts of moisture, temperature, and bivalent cations. Such an environment allows grasses to thrive. The grassland vegetation produces large amounts of organic matter. Microbial decomposition of subsurface organic residues and organic residues from the surface taken underground by soil fauna results in the most recognizable property of the mollic epipedon, its dark color. Darwin soils are examples of soils that have a mollic epipedon.

Transformations are changes that take place in the soil through the interaction of biological, chemical, and physical processes. An example is the reduction of iron and manganese oxides, which occurs in soils saturated with water. Typically, iron oxides coat soil particles and produce brownish, yellowish, or reddish colors and manganese oxides produce black colors. When a soil becomes saturated with water and the dissolved oxygen is removed, anaerobic conditions develop. These conditions result in changes in the biogeochemical processes occurring in the soils and in the development of distinctive soil morphological characteristics (redoximorphic features). Reduced iron and manganese can move with the soil water to other parts of the soil or can be removed entirely from the soil by leaching. After the iron and manganese are removed, the leached area, or depletion, generally has a grayish or whitish color. If the reduced iron comes in contact with oxygen, it can reoxidize. The result is the formation of bright-colored concentrations or accumulations. Repeated cycles of saturation and drying create a mottled soil. Part of the soil is gray because of the loss of iron, and other parts are brown because the iron oxide has accumulated or has not been removed. The somewhat poorly drained Stoy soils are examples of soils in which this process has occurred. If a soil remains saturated for long periods, iron may be leached from the soil. Such soils are generally grayish, or gleyed. The poorly drained Cape soils are an example.

Removals from the soil can occur as solid mineral and organic particles are lost by erosion from the soil surface. Such losses can be serious because the material lost is commonly the most productive part of the soil profile. The strongly sloping Menfro, Hosmer, and Winfield soils are examples of soils that are highly susceptible to removals by soil erosion.

Removals can also occur within the soil, commonly as a result of leaching. The leaching of calcium carbonate from calcareous loess is an example of a removal. The loess was initially high in calcium carbonate. Water percolating through the loess dissolved and transported the calcium carbonate deeper into the solum. Calcium carbonate is relatively soluble and is removed early in the formation of the soil. It is also a powerful flocculent, creating microscopic soil particles too large to be transported in suspension in the soil water. Removal of calcium carbonate facilitates the dispersion of clay particles. Translocation of the dispersed clay particles can then occur in percolating soil water. Clarksville soils are an example of soils that have had significant removals from leaching.

Translocations are movements from one place to another in the soil. An example is the formation of an illuvial horizon through the translocation of clay from the A or E horizon, the zone of eluviation or loss, to the B horizon, the zone of illuviation or gain.

Soil Survey of Pulaski County, Illinois

In Menfro and Hosmer soils, for example, a significant amount of clay has accumulated, forming an illuvial horizon called an argillic horizon. Argillic horizons tend to develop on stable landscapes. Fine clay was transferred from the A or E horizon by water from rain and melting snow downward through the soil to the B horizon, where it was deposited on the faces of peds and along pores.

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Soil Survey of Pulaski County, Illinois

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Glossary

ABC soil. A soil having an A, a B, and a C horizon.

AC soil. A soil having an A and a C horizon.

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

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

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

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

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 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.

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).

- 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.
- Bisequum.** Two sequences of soil horizons, each of which consists of an illuvial horizon and the overlying eluvial horizons.
- 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.
- 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.
- 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 loosen the subsoil and bring clods to the surface.
- 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 plant community on a given site that will be established if present environmental conditions continue to prevail and the site is properly managed.
- 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 is 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material is 35 to 60 percent of these rock fragments, and extremely cobbly soil material is more than 60 percent.
- 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.** Grains, pellets, or nodules of various sizes, shapes, and colors consisting of concentrated compounds or cemented soil grains. The composition of most concretions is unlike that of the surrounding soil. Calcium carbonate and iron oxide are common compounds in concretions.
- Conservation cropping system.** Growing crops in combination with needed cultural and management practices. In a good conservation cropping system, the soil-improving crops and practices more than offset the soil-depleting crops and practices. Cropping systems are needed on all tilled soils. Soil-improving practices in a conservation cropping system include the use of rotations that contain grasses and legumes and the return of crop residue to the soil. Other practices include the use of green manure crops of grasses and legumes, proper tillage, adequate fertilization, and weed and pest control.
- Conservation tillage.** Any tillage and planting system in which a cover of crop residue is maintained on at least 30 percent of the surface after planting in order to reduce the hazard of water erosion; in areas where wind erosion is the primary concern, a system that maintains a cover of at least 1,000 pounds of flat residue of small grain or its equivalent during the critical erosion period.
- 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."
- 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.
- Corrosion.** Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.
- Corrosive.** High risk of corrosion to uncoated steel or deterioration of concrete.
- Cover crop.** A close-growing crop grown primarily to improve and protect the soil between periods of regular crop production, or a crop grown between trees and vines in orchards and vineyards.
- Cropping system.** Growing crops according to a planned system of rotation and management practices.
- Crop residue management.** Returning crop residue to the soil, which helps to maintain soil structure, organic matter content, and fertility and helps to control erosion.
- Cutbanks cave** (in tables). The walls of excavations tend to cave in or slough.
- Deferred grazing.** Postponing grazing or resting grazing land for a prescribed period.
- 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. An open depression has a natural outlet for surface drainage.
- Depth, soil.** 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 soils, 20 to 40 inches; shallow soils, 10 to 20 inches; and very shallow soils, less than 10 inches.
- Depth to bedrock** (in tables). Bedrock is too near the surface for the specified use.

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 periods of saturation or partial saturation during soil formation, as opposed to altered drainage, which is commonly the result of artificial drainage or irrigation but may be caused by the sudden deepening of channels or the blocking of drainage outlets. Seven classes of natural soil drainage are recognized:

Excessively drained.—These soils have very high and high hydraulic conductivity and a low water-holding capacity. They are not suited to crop production unless irrigated.

Somewhat excessively drained.—These soils have high hydraulic conductivity and a low water-holding capacity. Without irrigation, only a narrow range of crops can be grown and yields are low.

Well drained.—These soils have an intermediate or high water-holding capacity. They retain optimum amounts of moisture, but they are not wet close enough to the surface or long enough during the growing season to adversely affect yields.

Moderately well drained.—These soils are wet close enough to the surface or long enough that planting or harvesting operations or yields of most field crops are affected. Moderately well drained soils commonly have a layer with low hydraulic conductivity, a wet layer relatively high in the profile, additions of water by seepage, or some combination of these.

Somewhat poorly drained.—These soils are wet close enough to the surface or long enough that planting or harvesting operations or crop growth is markedly restricted under natural conditions. Somewhat poorly drained soils commonly have a layer with low hydraulic conductivity, a wet layer high in the profile, additions of water through seepage, or a combination of these.

Poorly drained.—These soils commonly are so wet at or near the surface during a considerable part of the year that field crops cannot be grown under natural conditions. Poor drainage is caused by a saturated zone, a layer with low hydraulic conductivity, seepage, or a combination of these.

Very poorly drained.—These soils are wet to the surface most of the time. The wetness prevents the growth of important crops under natural conditions.

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 a small, defined channel.

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

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

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 a zone in which the soil moisture status is wet at all times.

Episaturation. A type of saturation indicating a perched zone in which the soil moisture status is wet 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.

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. The term is more often applied to cliffs resulting from differential erosion.

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.

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.

First bottom. The normal flood plain of a stream, subject to frequent or occasional flooding.

Flaggy soil material. Material that is, by volume, 15 to 35 percent flagstones. Very flaggy soil material is 35 to 60 percent flagstones, and extremely flaggy soil material is more than 60 percent flagstones.

Flagstone. A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.

Flood plain. A nearly level alluvial plain that borders a stream and is subject to inundation under flood-stage conditions unless protected artificially. It is generally a constructional landform consisting of sediment deposited during overflow and lateral migration of the stream.

Footslope. The position that forms the inner, gently inclined surface at the base of a hillslope. In profile, footslopes are commonly concave. A footslope 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 habitat type. An association of dominant tree and ground flora species in a climax community.

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.

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.

Gleyed soil. Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.

Grassed waterway. A natural or constructed waterway, typically broad and shallow,

seeded to grass as protection against erosion. Conducts surface water away from cropland.

- Gravel.** Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.
- Gravelly soil material.** Material that is 15 to 50 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.
- Green manure crop (agronomy).** A soil-improving crop grown to be plowed under in an early stage of maturity or soon after maturity.
- Ground water.** Water filling all the unblocked pores of underlying material below the top of where the soil moisture status is wet.
- 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.
- 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.
- High-chroma zones.** Zones having chroma of 3 or more (the 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 6 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. 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-producing characteristics. The chief consideration is the inherent capacity of soil bare of vegetation to permit infiltration. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff. Soils are assigned to four groups. In group A, soils have a high infiltration rate when thoroughly wet and have a low runoff potential. They are mainly deep, well drained, and sandy or gravelly. In group D, at the other extreme, soils have a very slow infiltration rate and thus a high runoff potential. They have a claypan or clay layer at or near the surface, have a zone with wet soil moisture status high in the profile on a permanent basis, or are shallow over nearly impervious bedrock or other material. A soil is assigned to two hydrologic groups if part of the acreage is artificially drained and part is undrained.

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.

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.

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.** The controlled application of water to supplement rainfall and support plant growth. The design and management of an irrigation system are affected by depth to the water table, the need for drainage, flooding, available water capacity, intake rate, permeability, erosion hazard, and slope. The construction of a system is affected by large stones and depth to bedrock. The performance of a system is affected by the depth of the root zone, the formation of plow pans, the intake rate, and soil reaction.
- Knoll.** A small, low, rounded hill rising above adjacent landforms.
- K_{sat} .** Saturated hydraulic conductivity. (See Permeability.)
- 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 $1/3$ -bar or $1/10$ -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 the wind.
- Low-chroma zones.** Zones having chroma of 2 or less (the 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.
- Low strength.** The soil is not strong enough to support loads.
- MAP.** Mean annual precipitation, expressed in inches.
- 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.
- Mineral soil.** Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.
- Minimum tillage.** Only the tillage essential to crop production and prevention of soil damage.
- Miscellaneous area.** An area that has little or no natural soil and supports little or no vegetation.
- Moderately coarse textured soil.** Coarse sandy loam, sandy loam, or fine sandy loam.
- Moderately fine textured soil.** Clay loam, sandy clay loam, or silty clay loam.

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

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

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

Munsell notation. A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

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

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

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

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:

Very low	less than 0.5 percent
Low	0.5 to 1.0 percent
Moderately low	1.0 to 2.0 percent
Moderate	2.0 to 4.0 percent
High	4.0 to 8.0 percent
Very high	more than 8.0 percent

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

Parts per million (ppm). The concentration of a substance in the soil, such as phosphorus or potassium, in one million parts of air-dried soil on a weight per weight basis.

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 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 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

- Phase, soil.** A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and thickness.
- pH value.** A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.)
- Piping** (in tables). Formation of subsurface tunnels or pipelike cavities by water moving through the soil.
- Plasticity index.** The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.
- Plastic limit.** The moisture content at which a soil changes from semisolid to plastic.
- Plowpan.** A compacted layer formed in the soil directly below the plowed layer.
- 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.** Burning an area under conditions of weather and soil moisture and at the time of day that will result in the intensity of heat and spread required to accomplish specific forest management, wildlife, grazing, or fire hazard reduction purposes.
- 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

Soil Survey of Pulaski County, Illinois

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 is generally 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.

Riser. The relatively short, steeply sloping area below a terrace tread that grades to a lower terrace tread or a base level.

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

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

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

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.

Sand. As a soil separate, individual rock or mineral fragments ranging 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.

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.

Sawtimber. Hardwood trees more than 11 inches in diameter and conifers more than 9 inches in diameter at breast height.

- 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.
- 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.
- Site index.** A designation of the quality of a forest site based on the height of the dominant stand at an arbitrarily chosen age. For example, if the average height attained by dominant and codominant trees in a fully stocked stand at the age of 50 years is 75 feet, the site index is 75.
- Slick spot.** A small area of soil having a puddled, crusted, or smooth surface and an excess of exchangeable sodium. The soil generally is silty or clayey, is slippery when wet, and is low in productivity.
- 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.
- Slow refill** (in tables). The slow filling of ponds, resulting from restricted permeability in the soil.
- Soft bedrock.** Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.
- Soil.** A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief over periods of time.

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

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

Solum. The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the substratum. The living roots and plant and animal activities are largely confined to the solum.

Sprinkler irrigation. A method of irrigation in which water is pumped through nozzles and sprayed, or sprinkled, through the air to the ground surface.

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.

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

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

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

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

Subsoiling. Tilling a soil below normal plow depth, ordinarily to shatter 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 due to uneven glacial deposition.

- Taxadjuncts.** Soils that cannot be classified in a series recognized in the classification system. Such soils are named for a series they strongly resemble and are designated as taxadjuncts to that series because they differ in ways too small to be of consequence in interpreting their use and behavior.
- Terrace.** An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field is generally built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.
- Terrace (geologic).** 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.
- 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.
- Tread.** The relatively flat terrace surface that was cut or built by stream or wave action.
- Upland (geology).** 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.
- Variation.** 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 oven-dry basis, at which a plant (specifically a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.
- Windthrow.** The uprooting and tipping over of trees by the wind.

Tables

Soil Survey of Pulaski County, Illinois

Table 1.--Temperature and Precipitation

(Recorded in the period 1971-2000 at Brookport, Massac County, Illinois)

Month	Temperature						Precipitation				
	Average daily maximum	Average daily minimum	Average daily	2 years in 10 will have--		Average number of growing degree days*	Average	2 years in 10 will have--		Average number of days with 0.10 inch or more	Average snow-fall
				Maximum temp. higher than--	Minimum temp. lower than--			Less than--	More than--		
	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>°F</u>	<u>Units</u>	<u>In</u>	<u>In</u>	<u>In</u>		<u>In</u>
January--	42.4	24.9	33.7	67	-7	9	3.55	2.11	4.97	6	3.4
February-	48.3	29.0	38.7	72	1	22	3.91	1.99	5.49	6	2.8
March----	58.4	37.6	48.0	79	14	98	4.42	2.83	5.71	7	0.9
April----	68.8	46.6	57.7	85	25	258	4.70	2.64	6.48	7	0.0
May-----	77.5	55.9	66.7	91	37	519	4.76	2.65	6.53	7	0.0
June-----	85.8	64.1	74.9	97	46	747	4.07	2.19	5.93	6	0.0
July-----	89.5	68.4	78.9	100	54	897	4.33	2.62	5.88	5	0.0
August---	88.4	66.1	77.3	99	51	842	3.00	1.32	4.43	5	0.0
September	81.5	58.7	70.1	96	38	603	3.27	1.24	5.38	5	0.0
October--	71.0	46.9	58.9	88	26	302	3.23	1.88	4.41	5	0.0
November-	57.9	38.3	48.1	79	16	95	4.48	2.32	6.34	6	0.0
December-	46.5	28.9	37.7	68	2	19	4.46	2.34	6.38	7	1.1
Yearly: Average	68.0	47.1	57.6	---	---	---	---	---	---	---	---
Extreme	105	-21	---	101	-9	---	---	---	---	---	---
Total--	---	---	---	---	---	4,410	48.17	40.26	54.26	72	8.3

* 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 (50 degrees F).

Soil Survey of Pulaski County, Illinois

Table 2.—Freeze Dates in Spring and Fall

(Recorded in the period 1971-2000 at Brookport, Massac
County, Illinois)

Probability	Temperature		
	24 °F or lower	28 °F or lower	32 °F or lower
Last freezing temperature in spring:			
1 year in 10 later than--	Apr. 4	Apr. 15	Apr. 23
2 years in 10 later than--	Mar. 29	Apr. 9	Apr. 18
5 years in 10 later than--	Mar. 16	Mar. 30	Apr. 10
First freezing temperature in fall:			
1 year in 10 earlier than--	Oct. 30	Oct. 20	Oct. 3
2 years in 10 earlier than--	Nov. 4	Oct. 25	Oct. 8
5 years in 10 earlier than-	Nov. 15	Nov. 5	Oct. 20

Table 3.—Growing Season

(Recorded in the period 1971-2000 at Brookport, Massac
County, Illinois)

Probability	Daily minimum temperature during growing season		
	Higher than 24 °F	Higher than 28 °F	Higher than 32 °F
	<u>Days</u>	<u>Days</u>	<u>Days</u>
9 years in 10	217	199	170
8 years in 10	226	206	178
5 years in 10	243	220	192
2 years in 10	259	233	206
1 year in 10	268	240	214

Soil Survey of Pulaski County, Illinois

Table 4.--Acreage and Proportionate Extent of the Soils

Map symbol	Soil name	Acres	Percent
79B	Menfro silt loam, 2 to 5 percent slopes-----	1,386	1.1
79C	Menfro silt loam, 5 to 10 percent slopes-----	759	0.6
79C2	Menfro silt loam, 5 to 10 percent slopes, eroded-----	3,867	3.0
79C3	Menfro silt loam, 5 to 10 percent slopes, severely eroded-----	2,598	2.0
79D	Menfro silt loam, 10 to 18 percent slopes-----	8	*
79D2	Menfro silt loam, 10 to 18 percent slopes, eroded-----	2,139	1.6
79D3	Menfro silt loam, 10 to 18 percent slopes, severely eroded-----	5,700	4.4
79E	Menfro silt loam, 18 to 25 percent slopes-----	83	*
79E2	Menfro silt loam, 18 to 25 percent slopes, eroded-----	2,626	2.0
79E3	Menfro silt loam, 18 to 25 percent slopes, severely eroded-----	2,253	1.7
79F	Menfro silt loam, 25 to 35 percent slopes-----	1,231	0.9
164A	Stoy silt loam, 0 to 2 percent slopes-----	725	0.6
164B	Stoy silt loam, 2 to 5 percent slopes-----	1,512	1.2
165A	Weir silt loam, 0 to 2 percent slopes-----	382	0.3
175B	Lamont fine sandy loam, 2 to 5 percent slopes-----	64	*
214B	Hosmer silt loam, 2 to 5 percent slopes-----	3,494	2.7
214C	Hosmer silt loam, 5 to 10 percent slopes-----	345	0.3
214C2	Hosmer silt loam, 5 to 10 percent slopes, eroded-----	6,822	5.2
214C3	Hosmer silt loam, 5 to 10 percent slopes, severely eroded-----	6,032	4.6
214D2	Hosmer silt loam, 10 to 18 percent slopes, eroded-----	2,160	1.7
214D3	Hosmer silt loam, 10 to 18 percent slopes, severely eroded-----	5,267	4.0
216D2	Stookey silt loam, 10 to 18 percent slopes, eroded-----	82	*
216E	Stookey silt loam, 18 to 25 percent slopes-----	9	*
216E2	Stookey silt loam, 18 to 25 percent slopes, eroded-----	107	*
216E3	Stookey silt loam, 18 to 25 percent slopes, severely eroded-----	25	*
216F	Stookey silt loam, 25 to 35 percent slopes-----	265	0.2
216G	Stookey silt loam, 35 to 70 percent slopes-----	27	*
308B	Alford silt loam, 2 to 5 percent slopes-----	390	0.3
308C	Alford silt loam, 5 to 10 percent slopes-----	3	*
308C2	Alford silt loam, 5 to 10 percent slopes, eroded-----	1,035	0.8
308C3	Alford silt loam, 5 to 10 percent slopes, severely eroded-----	506	0.4
308D	Alford silt loam, 10 to 18 percent slopes-----	5	*
308D2	Alford silt loam, 10 to 18 percent slopes, eroded-----	323	0.2
308D3	Alford silt loam, 10 to 18 percent slopes, severely eroded-----	1,758	1.4
308E	Alford silt loam, 18 to 25 percent slopes-----	32	*
308E2	Alford silt loam, 18 to 25 percent slopes, eroded-----	347	0.3
308E3	Alford silt loam, 18 to 25 percent slopes, severely eroded-----	113	*
308F	Alford silt loam, 25 to 35 percent slopes-----	412	0.3
453C	Muren silt loam, 5 to 10 percent slopes-----	125	*
453C3	Muren silt loam, 5 to 10 percent slopes, severely eroded-----	1	*
453D2	Muren silt loam, 10 to 18 percent slopes, eroded-----	8	*
453D3	Muren silt loam, 10 to 18 percent slopes, severely eroded-----	28	*
477B	Winfield silt loam, 2 to 5 percent slopes-----	6	*
477C2	Winfield silt loam, 5 to 10 percent slopes, eroded-----	334	0.3
477C3	Winfield silt loam, 5 to 10 percent slopes, severely eroded-----	7	*
477D2	Winfield silt loam, 10 to 18 percent slopes, eroded-----	18	*
477D3	Winfield silt loam, 10 to 18 percent slopes, severely eroded-----	38	*
694D2	Menfro-Baxter complex, 10 to 18 percent slopes, eroded-----	88	*
694F	Menfro-Baxter complex, 18 to 35 percent slopes-----	56	*
717F	Stookey-Clarksville complex, 18 to 35 percent slopes-----	382	0.3
717G	Clarksville-Stookey complex, 35 to 70 percent slopes-----	29	*
801B	Orthents, silty, undulating-----	605	0.5
802D	Orthents, loamy, hilly-----	395	0.3
864	Pits, quarries-----	78	*
865	Pits, gravel-----	30	*
1843A	Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded	4,147	3.2
1845A	Darwin and Jacob silty clays, undrained, 0 to 2 percent slopes, frequently flooded-----	361	0.3
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded-----	3,101	2.4
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded-----	181	0.1
3070L	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration-----	16	*
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded-----	814	0.6

See footnote at end of table.

Soil Survey of Pulaski County, Illinois

Table 4.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
3072A	Sharon silt loam, 0 to 3 percent slopes, frequently flooded-----	65	*
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded-----	1,025	0.8
3162L	Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration-----	91	*
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded-----	41	*
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded-----	70	*
3284L	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration-----	11	*
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded-----	1,071	0.8
3288L	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration-----	618	0.5
3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded-----	2	*
3331L	Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration----	12	*
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded-----	111	*
3333L	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration---	5	*
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded-----	856	0.7
3334L	Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration-----	194	0.1
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded-----	1,363	1.0
3420A	Piopolis silty clay loam, 0 to 2 percent slopes, frequently flooded-----	1,550	1.2
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded-----	1,825	1.4
3422A+	Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded-----	202	0.2
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded-----	1,946	1.5
3426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, frequently flooded-----	45	*
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration----	34	*
3449L	Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration-----	623	0.5
3456BL	Ware loam, 1 to 6 percent slopes, frequently flooded, long duration-----	9	*
3597L	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration-----	616	0.5
5079B2	Menfro silt loam, karst, 2 to 5 percent slopes, eroded-----	33	*
5079C3	Menfro silt loam, karst, 5 to 10 percent slopes, severely eroded-----	59	*
5079D3	Menfro silt loam, karst, 10 to 18 percent slopes, severely eroded-----	16	*
7084A	Okaw silt loam, 0 to 2 percent slopes, rarely flooded-----	584	0.4
7122B	Colp silt loam, 2 to 5 percent slopes, rarely flooded-----	17	*
7122C2	Colp silt loam, 5 to 10 percent slopes, eroded, rarely flooded-----	157	0.1
7122D2	Colp silt loam, 10 to 18 percent slopes, eroded, rarely flooded-----	39	*
7131A	Alvin fine sandy loam, 0 to 2 percent slopes, rarely flooded-----	157	0.1
7131B	Alvin fine sandy loam, 2 to 5 percent slopes, rarely flooded-----	1,425	1.1
7131C	Alvin fine sandy loam, 5 to 10 percent slopes, rarely flooded-----	134	0.1
7131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded, rarely flooded-----	344	0.3
7131D2	Alvin fine sandy loam, 10 to 18 percent slopes, eroded, rarely flooded-----	23	*
7338A	Hurst silt loam, 0 to 2 percent slopes, rarely flooded-----	164	0.1
7338B	Hurst silt loam, 2 to 5 percent slopes, rarely flooded-----	62	*
7401A	Okaw silty clay loam, 0 to 2 percent slopes, rarely flooded-----	236	0.2
7460A	Ginat silt loam, 0 to 2 percent slopes, rarely flooded-----	5,654	4.3
7462A	Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded-----	557	0.4
7462B	Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded-----	1,395	1.1
7462C2	Sciotoville silt loam, 5 to 10 percent slopes, eroded, rarely flooded-----	824	0.6
7462C3	Sciotoville silt loam, 5 to 10 percent slopes, severely eroded, rarely flooded-----	206	0.2
7462D2	Sciotoville silt loam, 10 to 18 percent slopes, eroded, rarely flooded-----	75	*
7462D3	Sciotoville silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded-----	49	*
7463A	Wheeling silt loam, 0 to 2 percent slopes, rarely flooded-----	125	*
7463B	Wheeling silt loam, 2 to 5 percent slopes, rarely flooded-----	293	0.2
7463C2	Wheeling silt loam, 5 to 10 percent slopes, eroded, rarely flooded-----	206	0.2
7463D3	Wheeling silt loam, 10 to 18 percent slopes, severely eroded, rarely flooded---	38	*
7711A	Hatfield silt loam, 0 to 2 percent slopes, rarely flooded-----	1,980	1.5
7711B	Hatfield silt loam, 2 to 5 percent slopes, rarely flooded-----	1,777	1.4
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded-----	885	0.7
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded-----	898	0.7
8072A	Sharon silt loam, 0 to 3 percent slopes, occasionally flooded-----	290	0.2
8085A	Jacob silty clay, 0 to 2 percent slopes, occasionally flooded-----	89	*
8108A	Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded-----	5,272	4.1
8109A	Racoon silt loam, 0 to 2 percent slopes, occasionally flooded-----	333	0.3
8162A	Gorham silty clay loam, 0 to 2 percent slopes, occasionally flooded-----	2	*
8178A	Ruark fine sandy loam, 0 to 2 percent slopes, occasionally flooded-----	795	0.6

See footnote at end of table.

Soil Survey of Pulaski County, Illinois

Table 4.—Acreage and Proportionate Extent of the Soils—Continued

Map symbol	Soil name	Acres	Percent
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded-----	1,590	1.2
8184A	Roby fine sandy loam, 0 to 2 percent slopes, occasionally flooded-----	891	0.7
8184B	Roby fine sandy loam, 2 to 5 percent slopes, occasionally flooded-----	475	0.4
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded-----	98	*
8288A	Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded-----	485	0.4
8331A	Haymond silt loam, 0 to 3 percent slopes, occasionally flooded-----	217	0.2
8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded-----	1,762	1.4
8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded-----	3,029	2.3
8382A	Belknap silt loam, 0 to 2 percent slopes, occasionally flooded-----	9,710	7.5
8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded-----	1,600	1.2
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded-----	1,872	1.4
8422A+	Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded-----	456	0.4
8426A	Karnak clay, 0 to 2 percent slopes, occasionally flooded-----	1,935	1.5
8426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, occasionally flooded-----	12	*
8597A	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded-----	49	*
MW	Miscellaneous water-----	22	*
W	Water-----	2,559	2.0
	Total-----	130,080	100.0

* Less than 0.1 percent.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards

(See text for a description of the limitations and hazards listed in this table. Miscellaneous map units and map units generally not available for crop or pasture production are excluded from the table. Absence of an entry indicates the map unit is generally unsuited to cropland or to pastureland)

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
79B: Menfro-----	Crusting, water erosion.	Low pH, water erosion.
79C: Menfro-----	Crusting, water erosion.	Low pH, water erosion.
79C2: Menfro-----	Crusting, water erosion.	Low pH, water erosion.
79C3: Menfro-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
79D: Menfro-----	Crusting, water erosion.	Low pH, water erosion.
79D2: Menfro-----	Crusting, water erosion.	Low pH, water erosion.
79D3: Menfro-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
79E: Menfro-----	---	Equipment limitation, low pH, water erosion.
79E2: Menfro-----	---	Equipment limitation, low pH, water erosion.
79E3: Menfro-----	---	Equipment limitation, low pH, water erosion, low fertility.
79F: Menfro-----	---	Equipment limitation, low pH, water erosion.
164A: Stoy-----	Wetness, crusting, restricted permeability.	Wetness, low pH.
164B: Stoy-----	Wetness, crusting, water erosion, restricted permeability.	Wetness, low pH, water erosion.
165A: Weir-----	Ponding, restricted permeability.	Ponding, low pH, frost heave.
175B: Lamont-----	Water erosion, excessive permeability.	Low pH, low fertility, excessive permeability.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards—Continued

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
214B: Hosmer-----	Wetness, root-restrictive layer, crusting, water erosion, restricted permeability.	Wetness, root-restrictive layer, low pH, water erosion.
214C: Hosmer-----	Wetness, root-restrictive layer, crusting, water erosion, restricted permeability.	Wetness, root-restrictive layer, low pH, water erosion.
214C2: Hosmer-----	Wetness, root-restrictive layer, crusting, water erosion, restricted permeability.	Wetness, root-restrictive layer, low pH, water erosion.
214C3: Hosmer-----	Wetness, root-restrictive layer, crusting, water erosion, restricted permeability.	Wetness, root-restrictive layer, low pH, water erosion, low fertility.
214D2: Hosmer-----	Wetness, root-restrictive layer, crusting, water erosion, restricted permeability.	Wetness, root-restrictive layer, low pH, water erosion.
214D3: Hosmer-----	---	Wetness, root-restrictive layer, low pH, water erosion, low fertility.
216D2: Stookey-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
216E: Stookey-----	---	Equipment limitation, low pH, water erosion, low fertility.
216E2: Stookey-----	---	Equipment limitation, low pH, water erosion, low fertility.
216E3: Stookey-----	---	Equipment limitation, low pH, water erosion, low fertility.
216F: Stookey-----	---	Equipment limitation, low pH, water erosion, low fertility.
216G: Stookey-----	---	Generally unsuited.
308B: Alford-----	Crusting, water erosion.	Low pH, water erosion.
308C: Alford-----	Crusting, water erosion.	Low pH, water erosion.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards—Continued

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
308C2: Alford-----	Crusting, water erosion.	Low pH, water erosion.
308C3: Alford-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
308D: Alford-----	Crusting, water erosion.	Low pH, water erosion.
308D2: Alford-----	Crusting, water erosion.	Low pH, water erosion.
308D3: Alford-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
308E: Alford-----	---	Equipment limitation, low pH, water erosion.
308E2: Alford-----	---	Equipment limitation, low pH, water erosion.
308E3: Alford-----	---	Equipment limitation, low pH, water erosion, low fertility.
308F: Alford-----	---	Equipment limitation, low pH, water erosion.
453C: Muren-----	Wetness, water erosion.	Wetness, low pH, water erosion.
453C3: Muren-----	Wetness, crusting, water erosion.	Wetness, low pH, water erosion.
453D2: Muren-----	Wetness, water erosion.	Wetness, low pH, water erosion.
453D3: Muren-----	Wetness, crusting, water erosion.	Wetness, low pH, water erosion.
477B: Winfield-----	Crusting, water erosion.	Low pH, water erosion.
477C2: Winfield-----	Crusting, water erosion.	Low pH, water erosion.
477C3: Winfield-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
477D2: Winfield-----	Crusting, water erosion.	Low pH, water erosion.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards—Continued

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
477D3: Winfield-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
694D2: Menfro-----	Crusting, water erosion.	Low pH, water erosion.
Baxter-----	Water erosion.	Low pH, water erosion.
694F: Menfro-----	---	Equipment limitation, low pH, water erosion.
Baxter-----	---	Equipment limitation, low pH, water erosion.
717F: Stookey-----	---	Equipment limitation, low pH, water erosion, low fertility.
Clarksville-----	---	Equipment limitation, low pH, water erosion.
717G: Clarksville-----	---	Generally unsuited.
Stookey-----	---	Generally unsuited.
801B: Orthents-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
802D: Orthents-----	Water erosion, restricted permeability.	Water erosion, low fertility.
864: Pits-----	Low pH, limited available water capacity, restricted permeability.	Low pH, limited available water capacity, low fertility.
865: Pits-----	Low pH, limited available water capacity, restricted permeability.	Low pH, limited available water capacity, low fertility.
3070A: Beaucoup-----	Flooding, ponding.	Flooding, ponding, frost heave.
3071A: Darwin-----	Flooding, ponding, poor tilth, restricted permeability.	Flooding, ponding, frost heave.
3072A: Sharon-----	Flooding.	Flooding, low pH.
3108A: Bonnie-----	Flooding, ponding, crusting, restricted permeability.	Flooding, ponding, low pH, frost heave.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards—Continued

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
3180A: Dupo-----	Flooding, wetness, restricted permeability.	Flooding, wetness.
3284A: Tice-----	Flooding, wetness, poor tilth, crusting.	Flooding, wetness, poor tilth.
3288A: Petrolia-----	Flooding, ponding, poor tilth, crusting, restricted permeability.	Flooding, ponding, poor tilth, frost heave.
3331A: Haymond-----	Flooding, water erosion.	Flooding.
3333A: Wakeland-----	Flooding, wetness.	Flooding, wetness.
3334A: Birds-----	Flooding, ponding, crusting, restricted permeability.	Flooding, ponding, low pH, frost heave.
3382A: Belknap-----	Flooding, wetness.	Flooding, wetness, low pH.
3420A: Piopolis-----	Flooding, ponding, poor tilth, crusting, restricted permeability.	Flooding, ponding, poor tilth, low pH, frost heave.
3422A: Cape-----	Flooding, ponding, poor tilth, low pH, restricted permeability.	Flooding, ponding, poor tilth, low pH, frost heave.
3422A+: Cape-----	Flooding, ponding, low pH, crusting, restricted permeability.	Flooding, ponding, low pH, frost heave.
3426A: Karnak-----	Flooding, ponding, poor tilth, restricted permeability.	Flooding, ponding, poor tilth, frost heave.
3426A+: Karnak-----	Flooding, ponding, crusting, restricted permeability.	Flooding, ponding, frost heave.
3597L: Armiesburg-----	---	Flooding.
5079B2: Menfro-----	Crusting, water erosion.	Low pH, water erosion.
5079C3: Menfro-----	Crusting, water erosion.	Low pH, water erosion, low fertility.
5079D3: Menfro-----	Crusting, water erosion.	Low pH, water erosion, low fertility.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards—Continued

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
7084A: Okaw-----	Ponding, low pH, crusting, restricted permeability.	Ponding, low pH, frost heave.
7122B: Colp-----	Crusting, water erosion, restricted permeability.	Low pH, water erosion.
7122C2: Colp-----	Crusting, water erosion, restricted permeability.	Low pH, water erosion.
7122D2: Colp-----	Crusting, water erosion, restricted permeability.	Low pH, water erosion.
7131A: Alvin-----	This soil is well suited to cropland.	Low pH, low fertility.
7131B: Alvin-----	Water erosion.	Low pH, low fertility.
7131C: Alvin-----	Water erosion.	Low pH, water erosion, low fertility.
7131C2: Alvin-----	Water erosion.	Low pH, water erosion, low fertility.
7131D2: Alvin-----	Water erosion.	Low pH, water erosion, low fertility.
7338A: Hurst-----	Wetness, low pH, crusting, restricted permeability.	Wetness, low pH.
7338B: Hurst-----	Wetness, low pH, crusting, water erosion, restricted permeability.	Wetness, low pH, water erosion.
7401A: Okaw-----	Ponding, poor tilth, low pH, restricted permeability.	Ponding, poor tilth, low pH, frost heave.
7460A: Ginat-----	Ponding, restricted permeability.	Ponding, low pH, frost heave.
7462A: Sciotoville-----	Wetness, crusting, restricted permeability.	Wetness, low pH.
7462B: Sciotoville-----	Wetness, crusting, water erosion, restricted permeability.	Wetness, low pH, water erosion.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards—Continued

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
7462C2: Sciotoville-----	Wetness, crusting, water erosion, restricted permeability.	Wetness, low pH, water erosion.
7462C3: Sciotoville-----	Wetness, crusting, water erosion, restricted permeability.	Wetness, low pH, water erosion, low fertility.
7462D2: Sciotoville-----	Wetness, crusting, water erosion, restricted permeability.	Wetness, low pH, water erosion.
7462D3: Sciotoville-----	Wetness, crusting, water erosion, restricted permeability.	Wetness, low pH, water erosion, low fertility.
7463A: Wheeling-----	Crusting, excessive permeability.	Low pH, excessive permeability.
7463B: Wheeling-----	Crusting, water erosion, excessive permeability.	Low pH, water erosion, excessive permeability.
7463C2: Wheeling-----	Crusting, water erosion, excessive permeability.	Low pH, water erosion, excessive permeability.
7463D3: Wheeling-----	Crusting, water erosion, excessive permeability.	Low pH, water erosion, low fertility, excessive permeability.
7711A: Hatfield-----	Wetness, crusting, restricted permeability.	Wetness, low pH.
7711B: Hatfield-----	Wetness, crusting, water erosion, restricted permeability.	Wetness, low pH, water erosion.
8070A: Beaucoup-----	Flooding, ponding.	Flooding, ponding, frost heave.
8071A: Darwin-----	Flooding, ponding, poor tilth, restricted permeability.	Flooding, ponding, frost heave.
8072A: Sharon-----	Flooding, water erosion.	Flooding, low pH.
8085A: Jacob-----	Flooding, ponding, poor tilth, low pH, restricted permeability.	Flooding, ponding, poor tilth, low pH, frost heave.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards—Continued

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
8108A: Bonnie-----	Flooding, ponding, crusting, restricted permeability.	Flooding, ponding, low pH, frost heave.
8109A: Raccoon-----	Flooding, ponding, crusting, restricted permeability.	Flooding, ponding, low pH, frost heave.
8162A: Gorham-----	Flooding, ponding, restricted permeability.	Flooding, ponding, low pH, frost heave.
8178A: Ruark-----	Flooding, ponding, crusting, restricted permeability.	Flooding, ponding, low pH, frost heave.
8180A: Dupo-----	Flooding, wetness, restricted permeability.	Flooding, wetness.
8184A: Roby-----	Flooding, wetness.	Flooding, wetness, low pH, low fertility.
8184B: Roby-----	Flooding, wetness, water erosion.	Flooding, wetness, low pH, low fertility.
8284A: Tice-----	Flooding, wetness, poor tilth, crusting.	Flooding, wetness, poor tilth.
8288A: Petrolia-----	Flooding, ponding, poor tilth, crusting, restricted permeability.	Flooding, ponding, poor tilth, frost heave.
8331A: Haymond-----	Flooding, water erosion.	Flooding.
8333A: Wakeland-----	Flooding, wetness.	Flooding, wetness.
8334A: Birds-----	Flooding, ponding, crusting, restricted permeability.	Flooding, ponding, low pH, frost heave.
8382A: Belknap-----	Flooding, wetness.	Flooding, wetness, low pH.
8420A: Piopolis-----	Flooding, ponding, poor tilth, crusting, restricted permeability.	Flooding, ponding, poor tilth, low pH, frost heave.
8422A: Cape-----	Flooding, ponding, poor tilth, low pH, restricted permeability.	Flooding, ponding, poor tilth, low pH, frost heave.

Soil Survey of Pulaski County, Illinois

Table 5.—Cropland and Pastureland Limitations and Hazards—Continued

Soil name and map symbol	Cropland limitations and hazards	Pastureland limitations and hazards
8422A+: Cape-----	Flooding, ponding, low pH, crusting, restricted permeability.	Flooding, ponding, low pH, frost heave.
8426A: Karnak-----	Flooding, ponding, poor tilth, restricted permeability.	Flooding, ponding, poor tilth, frost heave.
8426A+: Karnak-----	Flooding, ponding, crusting, restricted permeability.	Flooding, ponding, frost heave.
8597A: Armiesburg-----	Flooding.	Flooding.

Soil Survey of Pulaski County, Illinois

Table 6.—Land Capability and Yields per Acre of Crops and Pasture

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

Map symbol and soil name	Land capability	Corn	Soybeans	Winter wheat	Grass-legume hay	Grass-legume pasture
		<u>Bu</u>	<u>Bu</u>	<u>Bu</u>	<u>Tons</u>	<u>AUM</u>
79B: Menfro-----	2e	148.00	46.00	56.00	4.40	6.40
79C: Menfro-----	3e	143.00	45.00	55.00	4.30	6.40
79C2: Menfro-----	3e	139.00	43.00	53.00	4.10	6.00
79C3: Menfro-----	4e	128.00	40.00	49.00	3.80	5.50
79D: Menfro-----	4e	133.00	41.00	51.00	4.00	5.70
79D2: Menfro-----	4e	127.00	39.00	49.00	3.80	5.40
79D3: Menfro-----	4e	116.00	36.00	45.00	3.40	4.90
79E: Menfro-----	6e	---	---	---	3.50	5.10
79E2: Menfro-----	6e	---	---	---	3.30	4.70
79E3: Menfro-----	6e	---	---	---	3.00	4.20
79F: Menfro-----	6e	---	---	---	2.70	3.80
164A: Stoy-----	2w	131.00	42.00	52.00	4.20	6.20
164B: Stoy-----	2e	130.00	42.00	51.00	4.10	6.00
165A: Weir-----	3w	127.00	41.00	51.00	4.10	6.00
175B: Lamont-----	2e	117.00	39.00	49.00	2.90	4.30
214B: Hosmer-----	2e	125.00	41.00	51.00	3.30	4.70
214C: Hosmer-----	3e	121.00	39.00	50.00	3.20	4.60
214C2: Hosmer-----	3e	113.00	37.00	47.00	3.00	4.20
214C3: Hosmer-----	4e	93.00	30.00	38.00	2.40	3.50

Soil Survey of Pulaski County, Illinois

Table 6.—Land Capability and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Winter wheat	Grass-legume hay	Grass-legume pasture
		Bu	Bu	Bu	Tons	AUM
214D2: Hosmer-----	4e	101.00	33.00	42.00	2.60	3.70
214D3: Hosmer-----	6e	---	---	---	2.10	3.10
216D2: Stookey-----	3e	122.00	37.00	45.00	4.40	4.80
216E: Stookey-----	6e	---	---	---	3.20	4.60
216E2: Stookey-----	6e	---	---	---	3.20	4.20
216E3: Stookey-----	6e	---	---	---	2.70	3.80
216F: Stookey-----	6e	---	---	---	2.40	3.40
216G: Stookey-----	7e	---	---	---	---	---
308B: Alford-----	2e	149.00	46.00	58.00	4.50	6.50
308C: Alford-----	3e	146.00	45.00	57.00	4.40	6.40
308C2: Alford-----	3e	140.00	43.00	55.00	4.20	6.10
308C3: Alford-----	4e	129.00	40.00	51.00	3.90	5.50
308D: Alford-----	4e	134.00	41.00	53.00	4.00	5.90
308D2: Alford-----	4e	128.00	41.00	50.00	3.80	5.60
308D3: Alford-----	4e	117.00	36.00	46.00	3.60	5.00
308E: Alford-----	6e	---	---	---	3.60	5.30
308E2: Alford-----	6e	---	---	---	3.40	4.80
308E3: Alford-----	6e	---	---	---	2.85	4.10
308F: Alford-----	6e	---	---	---	2.70	3.90
453C: Muren-----	3e	143.00	44.00	53.00	4.50	6.50

Soil Survey of Pulaski County, Illinois

Table 6.—Land Capability and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Winter wheat	Grass-legume hay	Grass-legume pasture
		Bu	Bu	Bu	Tons	AUM
453C3: Muren-----	4e	126.00	39.00	48.00	4.00	5.90
453D2: Muren-----	4e	125.00	38.00	47.00	3.90	5.60
453D3: Muren-----	4e	115.00	35.00	43.00	3.60	5.10
477B: Winfield-----	2e	145.00	45.00	56.00	4.50	6.60
477C2: Winfield-----	3e	136.00	42.00	53.00	4.20	6.20
477C3: Winfield-----	4e	126.00	39.00	49.00	3.90	5.60
477D2: Winfield-----	4e	124.00	38.00	48.00	3.80	5.60
477D3: Winfield-----	4e	114.00	35.00	44.00	3.50	5.00
694D2: Baxter-Menfro-----	4e	104.00	34.00	41.00	3.30	4.80
694F: Menfro-Baxter-----	6e	---	---	---	2.34	3.40
717F: Stookey-Clarksville-	6e	---	---	---	1.90	2.70
717G: Stookey-Clarksville-	7e	---	---	---	---	---
801B: Orthents-----	2e	---	---	---	---	---
802D: Orthents-----	3e	---	---	---	---	---
864. Pits, quarries						
865. Pits, gravel						
1843A: Bonnie and Petrolia-	5w	---	---	---	---	---
1845A: Darwin and Jacob----	5w	---	---	---	---	---
1846A: Cape and Karnak-----	5w	---	---	---	---	---
3070A: Beaucoup-----	3w	143.00	48.00	---	4.40	6.50

Soil Survey of Pulaski County, Illinois

Table 6.—Land Capability and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Winter wheat	Grass-legume hay	Grass-legume pasture
		Bu	Bu	Bu	Tons	AUM
3070L: Beaucoup-----	5w	---	---	---	---	---
3071A: Darwin-----	4w	121.00	42.00	---	3.56	5.20
3072A: Sharon-----	2w	133.00	43.00	---	3.86	5.70
3108A: Bonnie-----	3w	121.00	40.00	---	3.76	5.60
3162L: Gorham-----	5w	---	---	---	---	---
3180A: Dupo-----	2w	148.00	46.00	---	4.20	6.10
3284A: Tice-----	3w	149.00	46.00	---	4.60	6.80
3284L: Tice-----	5w	---	---	---	---	---
3288A: Petrolia-----	3w	131.00	40.00	---	4.00	5.90
3288L: Petrolia-----	5w	---	---	---	---	---
3331A: Haymond-----	2w	147.00	46.00	---	4.68	6.90
3331L: Haymond-----	5w	---	---	---	---	---
3333A: Wakeland-----	2w	141.00	46.00	---	4.17	6.10
3333L: Wakeland-----	5w	---	---	---	---	---
3334A: Birds-----	3w	127.00	42.00	---	3.97	5.80
3334L: Birds-----	5w	---	---	---	---	---
3382A: Belknap-----	3w	127.00	42.00	---	3.96	5.90
3420A: Piopolis-----	3w	115.00	40.00	---	3.56	5.20
3422A: Cape-----	3w	111.00	38.00	---	3.46	5.10
3422A+: Cape-----	3w	111.00	38.00	---	3.46	5.10

Soil Survey of Pulaski County, Illinois

Table 6.—Land Capability and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Winter wheat	Grass-legume hay	Grass-legume pasture
		Bu	Bu	Bu	Tons	AUM
3426A: Karnak-----	3w	109.00	37.00	---	3.26	4.80
3426A+: Karnak-----	3w	109.00	37.00	---	3.26	4.80
3426L: Karnak-----	5w	---	---	---	---	---
3449L: Armiesburg-Sarpy----	5w	---	---	---	---	---
3456BL: Ware-----	5w	---	---	---	---	---
3597L: Armiesburg-----	5w	---	---	---	---	---
5079B2: Menfro-----	2e	142.00	44.00	54.00	4.19	6.20
5079C3: Menfro-----	4e	128.00	40.00	49.00	3.79	5.50
5079D3: Menfro-----	4e	116.00	36.00	45.00	3.44	4.90
7084A: Okaw-----	3w	116.00	38.00	50.00	3.39	5.00
7122B: Colp-----	3e	120.00	38.00	50.00	3.80	5.60
7122C2: Colp-----	3e	109.00	34.00	46.00	3.50	5.00
7122D2: Colp-----	4e	97.00	30.00	41.00	3.10	4.40
7131A: Alvin-----	2s	135.00	44.00	53.00	4.00	4.80
7131B: Alvin-----	2e	134.00	44.00	52.00	3.40	5.00
7131C: Alvin-----	3e	131.00	43.00	51.00	3.30	4.80
7131C2: Alvin-----	3e	126.00	41.00	49.00	3.20	4.60
7131D2: Alvin-----	4e	115.00	37.00	45.00	2.90	4.20
7338A: Hurst-----	3w	121.00	39.00	50.00	3.73	5.50
7338B: Hurst-----	3w	120.00	39.00	50.00	3.69	5.40

Soil Survey of Pulaski County, Illinois

Table 6.—Land Capability and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Winter wheat	Grass-legume hay	Grass-legume pasture
		Bu	Bu	Bu	Tons	AUM
7401A: Okaw-----	3w	107.00	34.00	41.00	3.39	5.00
7460A: Ginat-----	3w	128.00	44.00	53.00	4.00	5.80
7462A: Sciotoville-----	2w	126.00	42.00	53.00	3.60	5.30
7462B: Sciotoville-----	2e	125.00	42.00	52.00	3.60	5.20
7462C2: Sciotoville-----	3e	117.00	39.00	49.00	3.40	4.90
7462C3: Sciotoville-----	4e	108.00	36.00	46.00	3.11	4.40
7462D2: Sciotoville-----	4e	107.00	36.00	45.00	3.07	4.40
7462D3: Sciotoville-----	4e	98.00	33.00	41.00	2.80	4.00
7463A: Wheeling-----	2s	132.00	43.00	53.00	3.39	5.00
7463B: Wheeling-----	2e	131.00	43.00	52.00	3.36	5.00
7463C2: Wheeling-----	3e	123.00	40.00	49.00	3.15	4.60
7463D3: Wheeling-----	4e	103.00	34.00	41.00	2.64	3.80
7711A: Hatfield-----	2w	126.00	42.00	53.00	4.18	6.20
7711B: Hatfield-----	2e	125.00	42.00	52.00	4.14	6.00
8070A: Beaucoup-----	2w	159.00	53.00	62.00	4.90	7.20
8071A: Darwin-----	3w	134.00	45.00	54.00	3.96	5.80
8072A: Sharon-----	2w	148.00	48.00	57.00	4.30	6.30
8085A: Jacob-----	4w	95.00	35.00	38.00	3.05	4.50
8108A: Bonnie-----	3w	134.00	44.00	53.00	4.18	6.20
8109A: Raccoon-----	3w	130.00	41.00	51.00	3.50	5.20

Soil Survey of Pulaski County, Illinois

Table 6.—Land Capability and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Corn	Soybeans	Winter wheat	Grass-legume hay	Grass-legume pasture
		Bu	Bu	Bu	Tons	AUM
8162A: Gorham-----	3w	140.00	46.00	54.00	4.10	4.60
8178A: Ruark-----	3w	118.00	40.00	50.00	3.96	5.80
8180A: Dupo-----	2w	164.00	51.00	61.00	4.60	6.80
8184A: Roby-----	2s	131.00	45.00	52.00	4.20	6.20
8184B: Roby-----	2e	130.00	45.00	51.00	4.10	6.10
8284A: Tice-----	2w	166.00	51.00	63.00	5.09	7.50
8288A: Petrolia-----	3w	146.00	44.00	55.00	4.41	6.50
8331A: Haymond-----	2w	163.00	51.00	63.00	5.20	7.70
8333A: Wakeland-----	2w	157.00	51.00	61.00	4.63	6.80
8334A: Birds-----	2w	141.00	46.00	55.00	4.41	6.50
8382A: Belknap-----	2w	141.00	47.00	57.00	4.41	6.50
8420A: Piopolis-----	3w	128.00	44.00	53.00	3.96	5.80
8422A: Cape-----	3w	123.00	42.00	52.00	3.84	5.70
8422A+: Cape-----	3w	123.00	42.00	52.00	3.84	5.70
8426A: Karnak-----	3w	121.00	41.00	47.00	3.62	5.30
8426A+: Karnak-----	3w	122.00	41.00	47.00	3.62	5.30
8597A: Armiesburg-----	2w	160.00	51.00	62.00	6.00	8.80
MW. Miscellaneous water						
W. Water						

Soil Survey of Pulaski County, Illinois

Table 7.--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)

Map symbol	Soil name
79B	Menfro silt loam, 2 to 5 percent slopes
164A	Stoy silt loam, 0 to 2 percent slopes
164B	Stoy silt loam, 2 to 5 percent slopes
175B	Lamont fine sandy loam, 2 to 5 percent slopes
214B	Hosmer silt loam, 2 to 5 percent slopes
308B	Alford silt loam, 2 to 5 percent slopes
477B	Winfield silt loam, 2 to 5 percent slopes
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3072A	Sharon silt loam, 0 to 3 percent slopes, frequently flooded (if protected from flooding or not frequently flooded during the growing season)
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3180A	Dupo silt loam, 0 to 2 percent slopes, frequently flooded (if protected from flooding or not frequently flooded during the growing season)
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded (if protected from flooding or not frequently flooded during the growing season)
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3331A	Haymond silt loam, 0 to 3 percent slopes, frequently flooded (if protected from flooding or not frequently flooded during the growing season)
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3420A	Piopolis silty clay loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
3422A+	Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded (if drained and either protected from flooding or not frequently flooded during the growing season)
5079B2	Menfro silt loam, karst, 2 to 5 percent slopes, eroded
7122B	Colp silt loam, 2 to 5 percent slopes, rarely flooded
7131A	Alvin fine sandy loam, 0 to 2 percent slopes, rarely flooded
7131B	Alvin fine sandy loam, 2 to 5 percent slopes, rarely flooded
7131C	Alvin fine sandy loam, 5 to 10 percent slopes, rarely flooded
7131C2	Alvin fine sandy loam, 5 to 10 percent slopes, eroded, rarely flooded
7460A	Ginat silt loam, 0 to 2 percent slopes, rarely flooded (if drained)
7462A	Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded
7462B	Sciotoville silt loam, 2 to 5 percent slopes, rarely flooded
7463A	Wheeling silt loam, 0 to 2 percent slopes, rarely flooded
7463B	Wheeling silt loam, 2 to 5 percent slopes, rarely flooded
7711A	Hatfield silt loam, 0 to 2 percent slopes, rarely flooded (if drained)
7711B	Hatfield silt loam, 2 to 5 percent slopes, rarely flooded (if drained)
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded (if drained)
8072A	Sharon silt loam, 0 to 3 percent slopes, occasionally flooded
8108A	Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8109A	Racoon silt loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8162A	Gorham silty clay loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8178A	Ruark fine sandy loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded

Soil Survey of Pulaski County, Illinois

Table 7.—Prime Farmland—Continued

Map symbol	Soil name
8184A	Roby fine sandy loam, 0 to 2 percent slopes, occasionally flooded
8184B	Roby fine sandy loam, 2 to 5 percent slopes, occasionally flooded
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
8288A	Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8331A	Haymond silt loam, 0 to 3 percent slopes, occasionally flooded
8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8382A	Belknap silt loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded (if drained)
8422A+	Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded (if drained)
8597A	Armiesburg silty clay loam, 0 to 2 percent slopes, occasionally flooded

Soil Survey of Pulaski County, Illinois

Table 8.--Hydric Soils

Map symbol	Map unit name
165A	Weir silt loam, 0 to 2 percent slopes
1843A	Bonnie and Petrolia soils, undrained, 0 to 2 percent slopes, frequently flooded
1845A	Darwin and Jacob silty clays, undrained, 0 to 2 percent slopes, frequently flooded
1846A	Karnak and Cape silty clays, undrained, 0 to 2 percent slopes, frequently flooded
3070A	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded
3070L	Beaucoup silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
3071A	Darwin silty clay, 0 to 2 percent slopes, frequently flooded
3108A	Bonnie silt loam, 0 to 2 percent slopes, frequently flooded
3162L	Gorham silty clay loam, 0 to 3 percent slopes, frequently flooded, long duration
3284L	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
3288A	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded
3288L	Petrolia silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
3331L	Haymond silt loam, 0 to 3 percent slopes, frequently flooded, long duration
3333L	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3334A	Birds silt loam, 0 to 2 percent slopes, frequently flooded
3334L	Birds silt loam, 0 to 2 percent slopes, frequently flooded, long duration
3420A	Piopolis silty clay loam, 0 to 2 percent slopes, frequently flooded
3422A	Cape silty clay loam, 0 to 2 percent slopes, frequently flooded
3422A+	Cape silt loam, overwash, 0 to 2 percent slopes, frequently flooded
3426A	Karnak silty clay, 0 to 2 percent slopes, frequently flooded
3426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, frequently flooded
3426L	Karnak silty clay, 0 to 2 percent slopes, frequently flooded, long duration
3449L	Armiesburg-Sarpy complex, 0 to 2 percent slopes, frequently flooded, long duration
3456BL	Ware loam, 1 to 6 percent slopes, frequently flooded, long duration
3597L	Armiesburg silty clay loam, 0 to 2 percent slopes, frequently flooded, long duration
7084A	Okaw silt loam, 0 to 2 percent slopes, rarely flooded
7401A	Okaw silty clay loam, 0 to 2 percent slopes, rarely flooded
7460A	Ginat silt loam, 0 to 2 percent slopes, rarely flooded
8070A	Beaucoup silty clay loam, 0 to 2 percent slopes, occasionally flooded
8071A	Darwin silty clay, 0 to 2 percent slopes, occasionally flooded
8085A	Jacob silty clay, 0 to 2 percent slopes, occasionally flooded
8108A	Bonnie silt loam, 0 to 2 percent slopes, occasionally flooded
8109A	Raccoon silt loam, 0 to 2 percent slopes, occasionally flooded
8162A	Gorham silty clay loam, 0 to 2 percent slopes, occasionally flooded
8178A	Ruark fine sandy loam, 0 to 2 percent slopes, occasionally flooded
8288A	Petrolia silty clay loam, 0 to 2 percent slopes, occasionally flooded
8334A	Birds silt loam, 0 to 2 percent slopes, occasionally flooded
8420A	Piopolis silty clay loam, 0 to 2 percent slopes, occasionally flooded
8422A	Cape silty clay loam, 0 to 2 percent slopes, occasionally flooded
8422A+	Cape silt loam, overwash, 0 to 2 percent slopes, occasionally flooded
8426A	Karnak clay, 0 to 2 percent slopes, occasionally flooded
8426A+	Karnak silt loam, overwash, 0 to 2 percent slopes, occasionally flooded

Soil Survey of Pulaski County, Illinois

Table 9.—Map Units With Inclusions of Hydric Soils

Map symbol	Map unit name
164A	Stoy silt loam, 0 to 2 percent slopes
3284A	Tice silty clay loam, 0 to 2 percent slopes, frequently flooded
3333A	Wakeland silt loam, 0 to 2 percent slopes, frequently flooded
3382A	Belknap silt loam, 0 to 2 percent slopes, frequently flooded
7338A	Hurst silt loam, 0 to 2 percent slopes, rarely flooded
7462A	Sciotoville silt loam, 0 to 2 percent slopes, rarely flooded
7463A	Wheeling silt loam, 0 to 2 percent slopes, rarely flooded
7711A	Hatfield silt loam, 0 to 2 percent slopes, rarely flooded
8180A	Dupo silt loam, 0 to 2 percent slopes, occasionally flooded
8184A	Roby fine sandy loam, 0 to 2 percent slopes, occasionally flooded
8284A	Tice silty clay loam, 0 to 2 percent slopes, occasionally flooded
8333A	Wakeland silt loam, 0 to 2 percent slopes, occasionally flooded
8382A	Belknap silt loam, 0 to 2 percent slopes, occasionally flooded

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
79B: Menfro-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
79C: Menfro-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
79C2: Menfro-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
79C3: Menfro-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
79D: Menfro-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
79D2: Menfro-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
79D3: Menfro-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
79E: Menfro-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
79E2: Menfro-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
79E3: Menfro-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
79F: Menfro-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
164A: Stoy-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
164B: Stoy-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
165A: Weir-----	Moderate Low strength	Poorly suited Ponding Wetness Low strength	Moderately suited Low strength
175B: Lamont-----	Moderate Sandiness	Moderately suited Sandiness	Moderately suited Sandiness
214B: Hosmer-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
214C: Hosmer-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
214C2: Hosmer-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
214C3: Hosmer-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
214D2: Hosmer-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
214D3: Hosmer-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
216D2: Stookey-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
216E: Stookey-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
216E2: Stookey-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
216E3: Stookey-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
216F: Stookey-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
216G: Stookey-----	Severe Slope Low strength	Poorly suited Slope Low strength	Poorly suited Slope Low strength
308B: Alford-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
308C: Alford-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
308C2: Alford-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
308C3: Alford-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
308D: Alford-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
308D2: Alford-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
308D3: Alford-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
308E: Alford-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
308E2: Alford-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
308E3: Alford-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
308F: Alford-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
453C: Muren-----	Moderate Low strength	Moderately suited Low strength Slope Wetness	Moderately suited Low strength
453C3: Muren-----	Moderate Low strength	Moderately suited Low strength Slope Wetness	Moderately suited Low strength
453D2: Muren-----	Moderate Low strength	Poorly suited Slope Low strength Wetness	Moderately suited Low strength
453D3: Muren-----	Moderate Low strength	Poorly suited Slope Low strength Wetness	Moderately suited Low strength
477B: Winfield-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
477C2: Winfield-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
477C3: Winfield-----	Slight	Moderately suited Low strength Slope	Moderately suited Low strength
477D2: Winfield-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
477D3: Winfield-----	Slight	Poorly suited Slope Low strength	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
694D2: Menfro-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
Baxter-----	Moderate Stickiness/slope Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
694F: Menfro-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
Baxter-----	Moderate Slope Stickiness/slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
717F: Stookey-----	Moderate Slope	Poorly suited Slope Low strength	Moderately suited Low strength Slope
Clarksville-----	Moderate Slope	Poorly suited Slope	Moderately suited Slope
717G: Clarksville-----	Severe Slope	Poorly suited Slope	Poorly suited Slope
Stookey-----	Severe Slope Low strength	Poorly suited Slope Low strength	Poorly suited Slope Low strength
801B: Orthents-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
802D: Orthents-----	Moderate Low strength	Moderately suited Slope Low strength	Moderately suited Low strength
864: Pits, quarries-----	Not rated	Not rated	Not rated
865: Pits, gravel-----	Not rated	Not rated	Not rated
1843A: Bonnie-----	Severe Flooding Wetness Low strength	Poorly suited Ponding Flooding Wetness Low strength	Poorly suited Wetness Low strength
Petrolia-----	Severe Flooding Wetness Low strength	Poorly suited Ponding Flooding Wetness Low strength	Poorly suited Wetness Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
1845A: Darwin-----	Severe Flooding Wetness Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Stickiness; high plasticity index	Poorly suited Wetness Low strength Stickiness; high plasticity index
Jacob-----	Severe Flooding Wetness Stickiness/slope Low strength	Poorly suited Ponding Flooding Wetness Stickiness; high plasticity index Low strength	Poorly suited Wetness Low strength Stickiness; high plasticity index
1846A: Karnak-----	Severe Flooding Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index	Moderately suited Low strength Stickiness; high plasticity index
Cape-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3070A: Beaucoup-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3070L: Beaucoup-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3071A: Darwin-----	Severe Flooding Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index	Moderately suited Low strength Stickiness; high plasticity index
3072A: Sharon-----	Severe Flooding Low strength	Poorly suited Flooding Low strength	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
3108A: Bonnie-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3162L: Gorham-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3180A: Dupo-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
3284A: Tice-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
3284L: Tice-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
3288A: Petrolia-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3288L: Petrolia-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3331A: Haymond-----	Severe Flooding Low strength	Poorly suited Flooding Low strength	Moderately suited Low strength
3331L: Haymond-----	Severe Flooding Low strength	Poorly suited Flooding Low strength	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.--Forestland Management, Part I--Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
3333A: Wakeland-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
3333L: Wakeland-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
3334A: Birds-----	Severe Flooding Wetness Low strength	Poorly suited Ponding Flooding Wetness Low strength	Poorly suited Wetness Low strength
3334L: Birds-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3382A: Belknap-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
3420A: Piopolis-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3422A: Cape-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3422A+: Cape-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3426A: Karnak-----	Severe Flooding Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index	Moderately suited Low strength Stickiness; high plasticity index

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
3426A+: Karnak-----	Severe Flooding Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
3426L: Karnak-----	Severe Flooding Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index	Moderately suited Low strength Stickiness; high plasticity index
3449L: Armiesburg-----	Severe Flooding Low strength	Poorly suited Flooding Low strength	Moderately suited Low strength
Sarpy-----	Severe Flooding	Poorly suited Flooding	Well suited
3456BL: Ware-----	Severe Flooding	Poorly suited Flooding	Well suited
3597L: Armiesburg-----	Severe Flooding Low strength	Poorly suited Flooding Low strength	Moderately suited Low strength
5079B2: Menfro-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
5079C3: Menfro-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
5079D3: Menfro-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
7084A: Okaw-----	Moderate Low strength	Poorly suited Ponding Wetness Low strength	Moderately suited Low strength
7122B: Colp-----	Moderate Low strength Stickiness/slope	Moderately suited Low strength	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
7122C2: Colp-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
7122D2: Colp-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
7131A: Alvin-----	Slight	Well suited	Well suited
7131B: Alvin-----	Slight	Well suited	Well suited
7131C: Alvin-----	Slight	Moderately suited Slope	Well suited
7131C2: Alvin-----	Slight	Moderately suited Slope	Well suited
7131D2: Alvin-----	Slight	Poorly suited Slope	Well suited
7338A: Hurst-----	Moderate Low strength	Moderately suited Low strength Wetness	Moderately suited Low strength
7338B: Hurst-----	Moderate Low strength	Moderately suited Low strength Wetness	Moderately suited Low strength
7401A: Okaw-----	Moderate Low strength	Poorly suited Ponding Wetness Low strength	Moderately suited Low strength
7460A: Ginat-----	Moderate Low strength	Poorly suited Ponding Wetness Low strength	Moderately suited Low strength
7462A: Sciotoville-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
7462B: Sciotoville-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
7462C2: Sciotoville-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
7462C3: Sciotoville-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
7462D2: Sciotoville-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
7462D3: Sciotoville-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
7463A: Wheeling-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
7463B: Wheeling-----	Moderate Low strength	Moderately suited Low strength	Moderately suited Low strength
7463C2: Wheeling-----	Moderate Low strength	Moderately suited Low strength Slope	Moderately suited Low strength
7463D3: Wheeling-----	Moderate Low strength	Poorly suited Slope Low strength	Moderately suited Low strength
7711A: Hatfield-----	Moderate Low strength	Moderately suited Wetness Low strength	Moderately suited Low strength
7711B: Hatfield-----	Moderate Low strength	Moderately suited Wetness Low strength	Moderately suited Low strength
8070A: Beaucoup-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
8071A: Darwin-----	Severe Flooding Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index	Moderately suited Low strength Stickiness; high plasticity index
8072A: Sharon-----	Moderate Flooding Low strength	Moderately suited Flooding Low strength	Moderately suited Low strength
8085A: Jacob-----	Severe Flooding Stickiness/slope Low strength	Poorly suited Ponding Flooding Wetness Stickiness; high plasticity index Low strength	Moderately suited Low strength Stickiness; high plasticity index
8108A: Bonnie-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8109A: Raccoon-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8162A: Gorham-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8178A: Ruark-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8180A: Dupo-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
8184A: Roby-----	Severe Flooding	Poorly suited Flooding	Well suited

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
8184B: Roby-----	Severe Flooding	Poorly suited Flooding	Well suited
8284A: Tice-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
8288A: Petrolia-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8331A: Haymond-----	Moderate Flooding Low strength	Moderately suited Flooding Low strength	Moderately suited Low strength
8333A: Wakeland-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
8334A: Birds-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8382A: Belknap-----	Severe Flooding Low strength	Poorly suited Flooding Wetness Low strength	Moderately suited Low strength
8420A: Piopolis-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8422A: Cape-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8422A+: Cape-----	Severe Flooding Low strength	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part I—Continued

Map symbol and soil name	Limitation of haul roads and major skid trails	Suitability of log landings	Suitability of equipment operability for logging areas
	Rating class and limiting features	Rating class and limiting features	Rating class and limiting features
8426A: Karnak-----	Severe Flooding Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index	Moderately suited Low strength Stickiness; high plasticity index
8426A+: Karnak-----	Severe Flooding Low strength Stickiness/slope	Poorly suited Ponding Flooding Wetness Low strength	Moderately suited Low strength
8597A: Armiesburg-----	Moderate Flooding Low strength	Moderately suited Flooding Low strength	Moderately suited Low strength
MW: Miscellaneous water-	Not rated	Not rated	Not rated
W: Water-----	Not rated	Not rated	Not rated

Soil Survey of Pulaski County, Illinois

Table 10.--Forestland Management, Part II

Map symbol and soil name	Suitability of mechanized site preparation	Limitation of prescribed burning
	Rating class and limiting features	Rating class and limiting features
79B: Menfro-----	Well suited	Slight
79C: Menfro-----	Well suited	Slight
79C2: Menfro-----	Well suited	Slight
79C3: Menfro-----	Well suited	Slight
79D: Menfro-----	Well suited	Slight
79D2: Menfro-----	Well suited	Slight
79D3: Menfro-----	Well suited	Slight
79E: Menfro-----	Poorly suited Slope	Slight
79E2: Menfro-----	Poorly suited Slope	Slight
79E3: Menfro-----	Poorly suited Slope	Slight
79F: Menfro-----	Poorly suited Slope	Slight
164A: Stoy-----	Well suited	Moderate Root restriction
164B: Stoy-----	Well suited	Moderate Root restriction
165A: Weir-----	Well suited	Slight
175B: Lamont-----	Well suited	Slight
214B: Hosmer-----	Well suited	Moderate Root restriction
214C: Hosmer-----	Well suited	Moderate Root restriction

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Suitability of mechanized site preparation	Limitation of prescribed burning
	Rating class and limiting features	Rating class and limiting features
214C2: Hosmer-----	Well suited	Moderate Root restriction
214C3: Hosmer-----	Well suited	Moderate Root restriction
214D2: Hosmer-----	Well suited	Moderate Root restriction
214D3: Hosmer-----	Well suited	Moderate Root restriction
216D2: Stookey-----	Well suited	Slight
216E: Stookey-----	Poorly suited Slope	Slight
216E2: Stookey-----	Poorly suited Slope	Slight
216E3: Stookey-----	Poorly suited Slope	Slight
216F: Stookey-----	Poorly suited Slope	Slight
216G: Stookey-----	Unsuited Slope	Moderate Slope
308B: Alford-----	Well suited	Slight
308C: Alford-----	Well suited	Slight
308C2: Alford-----	Well suited	Slight
308C3: Alford-----	Well suited	Slight
308D: Alford-----	Well suited	Slight
308D2: Alford-----	Well suited	Slight
308D3: Alford-----	Well suited	Slight

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Suitability of mechanized site preparation	Limitation of prescribed burning
	Rating class and limiting features	Rating class and limiting features
308E: Alford-----	Poorly suited Slope	Slight
308E2: Alford-----	Poorly suited Slope	Slight
308E3: Alford-----	Poorly suited Slope	Slight
308F: Alford-----	Poorly suited Slope	Slight
453C: Muren-----	Well suited	Slight
453C3: Muren-----	Well suited	Slight
453D2: Muren-----	Well suited	Slight
453D3: Muren-----	Well suited	Slight
477B: Winfield-----	Well suited	Slight
477C2: Winfield-----	Well suited	Slight
477C3: Winfield-----	Well suited	Slight
477D2: Winfield-----	Well suited	Slight
477D3: Winfield-----	Well suited	Slight
694D2: Menfro-----	Well suited	Slight
Baxter-----	Well suited	Slight
694F: Menfro-----	Poorly suited Slope	Slight
Baxter-----	Poorly suited Slope	Slight
717F: Stookey-----	Poorly suited Slope	Slight
Clarksville-----	Poorly suited Slope	Moderate Somewhat excessive drainage

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Suitability of mechanized site preparation	Limitation of prescribed burning
	Rating class and limiting features	Rating class and limiting features
717G: Clarksville-----	Unsuited Slope	Moderate Somewhat excessive drainage Slope
Stookey-----	Unsuited Slope	Moderate Slope
801B: Orthents-----	Well suited	Slight
802D: Orthents-----	Well suited	Slight
864: Pits, quarries-----	Not rated	Not rated
865: Pits, gravel-----	Not rated	Not rated
1843A: Bonnie-----	Unsuited Wetness	Slight
Petrolia-----	Unsuited Wetness	Slight
1845A: Darwin-----	Unsuited Wetness	Slight
Jacob-----	Unsuited Wetness	Slight
1846A: Karnak-----	Well suited	Slight
Cape-----	Well suited	Slight
3070A: Beaucoup-----	Well suited	Slight
3070L: Beaucoup-----	Well suited	Slight
3071A: Darwin-----	Well suited	Slight
3072A: Sharon-----	Well suited	Slight
3108A: Bonnie-----	Well suited	Slight
3162L: Gorham-----	Well suited	Slight

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Suitability of mechanized site preparation	Limitation of prescribed burning
	Rating class and limiting features	Rating class and limiting features
3180A: Dupo-----	Well suited	Moderate Root restriction
3284A: Tice-----	Well suited	Slight
3284L: Tice-----	Well suited	Slight
3288A: Petrolia-----	Well suited	Slight
3288L: Petrolia-----	Well suited	Slight
3331A: Haymond-----	Well suited	Slight
3331L: Haymond-----	Well suited	Slight
3333A: Wakeland-----	Well suited	Slight
3333L: Wakeland-----	Well suited	Slight
3334A: Birds-----	Unsuited Wetness	Slight
3334L: Birds-----	Well suited	Slight
3382A: Belknap-----	Well suited	Slight
3420A: Piopolis-----	Well suited	Slight
3422A: Cape-----	Well suited	Slight
3422A+: Cape-----	Well suited	Slight
3426A: Karnak-----	Well suited	Slight
3426A+: Karnak-----	Well suited	Slight
3426L: Karnak-----	Well suited	Slight
3449L: Armiesburg-----	Well suited	Slight
Sarpy-----	Well suited	Severe Excessively drained Too sandy

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Suitability of mechanized site preparation	Limitation of prescribed burning
	Rating class and limiting features	Rating class and limiting features
3456BL: Ware-----	Well suited	Slight
3597L: Armiesburg-----	Well suited	Slight
5079B2: Menfro-----	Well suited	Slight
5079C3: Menfro-----	Well suited	Slight
5079D3: Menfro-----	Well suited	Slight
7084A: Okaw-----	Well suited	Moderate Root restriction
7122B: Colp-----	Well suited	Slight
7122C2: Colp-----	Well suited	Slight
7122D2: Colp-----	Well suited	Slight
7131A: Alvin-----	Well suited	Slight
7131B: Alvin-----	Well suited	Slight
7131C: Alvin-----	Well suited	Slight
7131C2: Alvin-----	Well suited	Slight
7131D2: Alvin-----	Well suited	Slight
7338A: Hurst-----	Well suited	Slight
7338B: Hurst-----	Well suited	Slight
7401A: Okaw-----	Well suited	Moderate Root restriction
7460A: Ginat-----	Well suited	Slight
7462A: Sciotoville-----	Well suited	Moderate Root restriction

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Suitability of mechanized site preparation	Limitation of prescribed burning
	Rating class and limiting features	Rating class and limiting features
7462B: Sciotoville-----	Well suited	Moderate Root restriction
7462C2: Sciotoville-----	Well suited	Moderate Root restriction
7462C3: Sciotoville-----	Well suited	Moderate Root restriction
7462D2: Sciotoville-----	Well suited	Moderate Root restriction
7462D3: Sciotoville-----	Well suited	Moderate Root restriction
7463A: Wheeling-----	Well suited	Slight
7463B: Wheeling-----	Well suited	Slight
7463C2: Wheeling-----	Well suited	Slight
7463D3: Wheeling-----	Well suited	Slight
7711A: Hatfield-----	Well suited	Slight
7711B: Hatfield-----	Well suited	Slight
8070A: Beaucoup-----	Well suited	Slight
8071A: Darwin-----	Well suited	Slight
8072A: Sharon-----	Well suited	Slight
8085A: Jacob-----	Well suited	Slight
8108A: Bonnie-----	Well suited	Slight
8109A: Raccoon-----	Well suited	Slight
8162A: Gorham-----	Well suited	Slight
8178A: Ruark-----	Well suited	Slight

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part II—Continued

Map symbol and soil name	Suitability of mechanized site preparation	Limitation of prescribed burning
	Rating class and limiting features	Rating class and limiting features
8180A: Dupo-----	Well suited	Moderate Root restriction
8184A: Roby-----	Well suited	Slight
8184B: Roby-----	Well suited	Slight
8284A: Tice-----	Well suited	Slight
8288A: Petrolia-----	Well suited	Slight
8331A: Haymond-----	Well suited	Slight
8333A: Wakeland-----	Well suited	Slight
8334A: Birds-----	Well suited	Slight
8382A: Belknap-----	Well suited	Slight
8420A: Piopolis-----	Well suited	Slight
8422A: Cape-----	Well suited	Slight
8422A+: Cape-----	Well suited	Slight
8426A: Karnak-----	Well suited	Slight
8426A+: Karnak-----	Well suited	Slight
8597A: Armiesburg-----	Well suited	Slight
MW: Miscellaneous water-	Not rated	Not rated
W: Water-----	Not rated	Not rated

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
79B: Menfro-----	Moderate Slope/erodibility	Moderately suited Low strength
79C: Menfro-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
79C2: Menfro-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
79C3: Menfro-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
79D: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
79D2: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
79D3: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
79E: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
79E2: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
79E3: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
79F: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
164A: Stoy-----	Slight	Moderately suited Low strength
164B: Stoy-----	Moderate Slope/erodibility	Moderately suited Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
165A: Weir-----	Slight	Poorly suited Ponding Wetness Low strength
175B: Lamont-----	Slight	Moderately suited Sandiness
214B: Hosmer-----	Moderate Slope/erodibility	Moderately suited Low strength
214C: Hosmer-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
214C2: Hosmer-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
214C3: Hosmer-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
214D2: Hosmer-----	Severe Slope/erodibility	Poorly suited Slope Low strength
214D3: Hosmer-----	Severe Slope/erodibility	Poorly suited Slope Low strength
216D2: Stookey-----	Severe Slope/erodibility	Poorly suited Slope Low strength
216E: Stookey-----	Severe Slope/erodibility	Poorly suited Slope Low strength
216E2: Stookey-----	Severe Slope/erodibility	Poorly suited Slope Low strength
216E3: Stookey-----	Severe Slope/erodibility	Poorly suited Slope Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
216F: Stookey-----	Severe Slope/erodibility	Poorly suited Slope Low strength
216G: Stookey-----	Severe Slope/erodibility	Poorly suited Slope Low strength
308B: Alford-----	Moderate Slope/erodibility	Moderately suited Low strength
308C: Alford-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
308C2: Alford-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
308C3: Alford-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
308D: Alford-----	Severe Slope/erodibility	Poorly suited Slope Low strength
308D2: Alford-----	Severe Slope/erodibility	Poorly suited Slope Low strength
308D3: Alford-----	Severe Slope/erodibility	Poorly suited Slope Low strength
308E: Alford-----	Severe Slope/erodibility	Poorly suited Slope Low strength
308E2: Alford-----	Severe Slope/erodibility	Poorly suited Slope Low strength
308E3: Alford-----	Severe Slope/erodibility	Poorly suited Slope Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
308F: Alford-----	Severe Slope/erodibility	Poorly suited Slope Low strength
453C: Muren-----	Moderate Slope/erodibility	Moderately suited Low strength Slope Wetness
453C3: Muren-----	Moderate Slope/erodibility	Moderately suited Low strength Slope Wetness
453D2: Muren-----	Severe Slope/erodibility	Poorly suited Slope Low strength Wetness
453D3: Muren-----	Severe Slope/erodibility	Poorly suited Slope Low strength Wetness
477B: Winfield-----	Moderate Slope/erodibility	Moderately suited Low strength
477C2: Winfield-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
477C3: Winfield-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
477D2: Winfield-----	Severe Slope/erodibility	Poorly suited Slope Low strength
477D3: Winfield-----	Severe Slope/erodibility	Poorly suited Slope Low strength
694D2: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
Baxter-----	Severe Slope/erodibility	Poorly suited Slope Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
694F: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
Baxter-----	Severe Slope/erodibility	Poorly suited Slope Low strength
717F: Stookey-----	Severe Slope/erodibility	Poorly suited Slope Low strength
Clarksville-----	Severe Slope/erodibility	Poorly suited Slope
717G: Clarksville-----	Severe Slope/erodibility	Poorly suited Slope
Stookey-----	Severe Slope/erodibility	Poorly suited Slope Low strength
801B: Orthents-----	Moderate Slope/erodibility	Moderately suited Low strength
802D: Orthents-----	Severe Slope/erodibility	Moderately suited Slope Low strength
864: Pits, quarries-----	Not rated	Not rated
865: Pits, gravel-----	Not rated	Not rated
1843A: Bonnie-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
Petrolia-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
1845A: Darwin-----	Slight	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
1845A: Jacob-----	Slight	Poorly suited Ponding Flooding Wetness Stickiness; high plasticity index Low strength
1846A: Karnak-----	Slight	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index
Cape-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3070A: Beaucoup-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3070L: Beaucoup-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3071A: Darwin-----	Slight	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index
3072A: Sharon-----	Slight	Poorly suited Flooding Low strength
3108A: Bonnie-----	Slight	Poorly suited Ponding Flooding Wetness Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
3162L: Gorham-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3180A: Dupo-----	Slight	Poorly suited Flooding Wetness Low strength
3284A: Tice-----	Slight	Poorly suited Flooding Wetness Low strength
3284L: Tice-----	Slight	Poorly suited Flooding Wetness Low strength
3288A: Petrolia-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3288L: Petrolia-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3331A: Haymond-----	Slight	Poorly suited Flooding Low strength
3331L: Haymond-----	Slight	Poorly suited Flooding Low strength
3333A: Wakeland-----	Slight	Poorly suited Flooding Wetness Low strength
3333L: Wakeland-----	Slight	Poorly suited Flooding Wetness Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
3334A: Birds-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3334L: Birds-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3382A: Belknap-----	Slight	Poorly suited Flooding Wetness Low strength
3420A: Piopolis-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3422A: Cape-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3422A+: Cape-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
3426A: Karnak-----	Slight	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index
3426A+: Karnak-----	Slight	Poorly suited Ponding Flooding Wetness Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
3426L: Karnak-----	Slight	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index
3449L: Armiesburg-----	Slight	Poorly suited Flooding Low strength
Sarpy-----	Slight	Poorly suited Flooding
3456BL: Ware-----	Moderate Slope/erodibility	Poorly suited Flooding
3597L: Armiesburg-----	Slight	Poorly suited Flooding Low strength
5079B2: Menfro-----	Moderate Slope/erodibility	Moderately suited Low strength
5079C3: Menfro-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
5079D3: Menfro-----	Severe Slope/erodibility	Poorly suited Slope Low strength
7084A: Okaw-----	Slight	Poorly suited Ponding Wetness Low strength
7122B: Colp-----	Moderate Slope/erodibility	Moderately suited Low strength
7122C2: Colp-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
7122D2: Colp-----	Severe Slope/erodibility	Poorly suited Slope Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
7131A: Alvin-----	Slight	Well suited
7131B: Alvin-----	Moderate Slope/erodibility	Well suited
7131C: Alvin-----	Moderate Slope/erodibility	Moderately suited Slope
7131C2: Alvin-----	Moderate Slope/erodibility	Moderately suited Slope
7131D2: Alvin-----	Severe Slope/erodibility	Poorly suited Slope
7338A: Hurst-----	Slight	Moderately suited Low strength Wetness
7338B: Hurst-----	Moderate Slope/erodibility	Moderately suited Low strength Wetness
7401A: Okaw-----	Slight	Poorly suited Ponding Wetness Low strength
7460A: Ginat-----	Slight	Poorly suited Ponding Wetness Low strength
7462A: Sciotoville-----	Slight	Moderately suited Low strength
7462B: Sciotoville-----	Moderate Slope/erodibility	Moderately suited Low strength
7462C2: Sciotoville-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
7462C3: Sciotoville-----	Moderate Slope/erodibility	Moderately suited Low strength Slope

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
7462D2: Sciotoville-----	Severe Slope/erodibility	Poorly suited Slope Low strength
7462D3: Sciotoville-----	Severe Slope/erodibility	Poorly suited Slope Low strength
7463A: Wheeling-----	Slight	Moderately suited Low strength
7463B: Wheeling-----	Moderate Slope/erodibility	Moderately suited Low strength
7463C2: Wheeling-----	Moderate Slope/erodibility	Moderately suited Low strength Slope
7463D3: Wheeling-----	Severe Slope/erodibility	Poorly suited Slope Low strength
7711A: Hatfield-----	Slight	Moderately suited Wetness Low strength
7711B: Hatfield-----	Moderate Slope/erodibility	Moderately suited Wetness Low strength
8070A: Beaucoup-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8071A: Darwin-----	Slight	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index
8072A: Sharon-----	Slight	Moderately suited Flooding Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
8085A: Jacob-----	Slight	Poorly suited Ponding Flooding Wetness Stickiness; high plasticity index Low strength
8108A: Bonnie-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8109A: Raccoon-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8162A: Gorham-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8178A: Ruark-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8180A: Dupo-----	Slight	Poorly suited Flooding Wetness Low strength
8184A: Roby-----	Slight	Poorly suited Flooding
8184B: Roby-----	Slight	Poorly suited Flooding
8284A: Tice-----	Slight	Poorly suited Flooding Wetness Low strength

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
8288A: Petrolia-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8331A: Haymond-----	Slight	Moderately suited Flooding Low strength
8333A: Wakeland-----	Slight	Poorly suited Flooding Wetness Low strength
8334A: Birds-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8382A: Belknap-----	Slight	Poorly suited Flooding Wetness Low strength
8420A: Piopolis-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8422A: Cape-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8422A+: Cape-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8426A: Karnak-----	Slight	Poorly suited Ponding Flooding Wetness Low strength Stickiness; high plasticity index

Soil Survey of Pulaski County, Illinois

Table 10.—Forestland Management, Part III—Continued

Map symbol and soil name	Erosion hazard on roads and trails	Suitability for roads (natural surface)
	Rating and limiting features	Rating and limiting features
8426A+: Karnak-----	Slight	Poorly suited Ponding Flooding Wetness Low strength
8597A: Armiesburg-----	Slight	Moderately suited Flooding Low strength
MW: Miscellaneous water-	Not rated	Not rated
W: Water-----	Not rated	Not rated

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity

Map symbol and soil name	Potential productivity	
	Common trees	Site index
79B:		
Menfro-----	white oak-----	82
	northern red oak----	84
79C:		
Menfro-----	white oak-----	75
	northern red oak----	77
79C2:		
Menfro-----	white oak-----	75
	northern red oak----	77
79C3:		
Menfro-----	white oak-----	69
	northern red oak----	71
79D:		
Menfro-----	white oak-----	70
	northern red oak----	71
79D2:		
Menfro-----	white oak-----	70
	northern red oak----	71
79D3:		
Menfro-----	white oak-----	62
	northern red oak----	64
79E:		
Menfro-----	white oak-----	66
	northern red oak----	68
79E2:		
Menfro-----	white oak-----	61
	northern red oak----	62
79E3:		
Menfro-----	white oak-----	55
	northern red oak----	56
79F:		
Menfro-----	white oak-----	53
	northern red oak----	54
164A:		
Stoy-----	white oak-----	70
	northern red oak----	71
	eastern cottonwood--	110
	pin oak-----	85
164B:		
Stoy-----	eastern cottonwood--	109
	northern red oak----	70
	white oak-----	69
	yellow poplar-----	89

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
165A:		
Weir-----	white oak-----	73
	northern red oak----	72
	eastern cottonwood--	98
	pin oak-----	88
175B:		
Lamont-----	white oak-----	76
	northern red oak----	70
214B:		
Hosmer-----	white oak-----	72
	northern red oak----	75
214C:		
Hosmer-----	white oak-----	69
	northern red oak----	72
214C2:		
Hosmer-----	white oak-----	64
	northern red oak----	67
214C3:		
Hosmer-----	northern red oak----	55
	white oak-----	53
214D2:		
Hosmer-----	white oak-----	58
	northern red oak----	61
214D3:		
Hosmer-----	white oak-----	48
	northern red oak----	49
216D2:		
Stokey-----	white oak-----	73
	northern red oak----	70
216E:		
Stokey-----	white oak-----	66
	northern red oak----	63
216E2:		
Stokey-----	white oak-----	60
	northern red oak----	58
216E3:		
Stokey-----	white oak-----	54
	northern red oak----	53
216F:		
Stokey-----	white oak-----	53
	northern red oak----	47
216G:		
Stokey-----	white oak-----	42
	northern red oak----	41
308B:		
Alford-----	white oak-----	77
	northern red oak----	78

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
308C:		
Alford-----	white oak-----	75
	northern red oak----	76
308C2:		
Alford-----	white oak-----	72
	northern red oak----	73
308C3:		
Alford-----	white oak-----	66
	northern red oak----	66
308D:		
Alford-----	white oak-----	70
	northern red oak----	71
308D2:		
Alford-----	white oak-----	66
	northern red oak----	67
308D3:		
Alford-----	white oak-----	59
	northern red oak----	60
308E:		
Alford-----	white oak-----	64
	northern red oak----	65
308E2:		
Alford-----	white oak-----	58
	northern red oak----	59
308E3:		
Alford-----	white oak-----	52
	northern red oak----	53
308F:		
Alford-----	white oak-----	50
	northern red oak----	51
453C:		
Muren-----	white oak-----	78
	northern red oak----	78
453C3:		
Muren-----	white oak-----	70
	northern red oak----	70
453D2:		
Muren-----	white oak-----	71
	northern red oak----	71
453D3:		
Muren-----	white oak-----	65
	northern red oak----	65
477B:		
Winfield-----	white oak-----	76
	northern red oak----	79

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
477C2:		
Winfield-----	white oak-----	71
	northern red oak----	74
477C3:		
Winfield-----	white oak-----	65
	northern red oak----	67
477D2:		
Winfield-----	white oak-----	66
	northern red oak----	68
477D3:		
Winfield-----	white oak-----	59
	northern red oak----	61
694D2:		
Menfro-----	white oak-----	70
	northern red oak----	71
Baxter-----	white oak-----	65
	northern red oak----	70
694F:		
Menfro-----	white oak-----	53
	northern red oak----	54
Baxter-----	white oak-----	59
	northern red oak----	64
717F:		
Stookey-----	white oak-----	54
	northern red oak----	53
Clarksville-----	white oak-----	52
	northern red oak----	62
717G:		
Clarksville-----	white oak-----	30
	northern red oak----	35
Stookey-----	white oak-----	40
	northern red oak----	39
801B. Orthents		
802D. Orthents		
864. Pits, quarries		
865. Pits, gravel		
1843A:		
Bonnie-----	eastern cottonwood--	88
	pin oak-----	80
Petrolia-----	eastern cottonwood--	88
	pin oak-----	80

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
1845A:		
Darwin-----	eastern cottonwood--	87
	pin oak-----	79
Jacob-----	eastern cottonwood--	87
	pin oak-----	79
1846A:		
Karnak-----	eastern cottonwood--	88
	pin oak-----	80
Cape-----	eastern cottonwood--	88
	pin oak-----	80
3070A:		
Beaucoup-----	eastern cottonwood--	97
	pin oak-----	87
3070L:		
Beaucoup-----	eastern cottonwood--	97
	pin oak-----	87
3071A:		
Darwin-----	eastern cottonwood--	88
	pin oak-----	80
3072A:		
Sharon-----	eastern cottonwood--	103
	pin oak-----	93
3108A:		
Bonnie-----	eastern cottonwood--	100
	pin oak-----	90
3162L:		
Gorham-----	eastern cottonwood--	97
	pin oak-----	88
3180A:		
Dupo-----	eastern cottonwood--	102
	pin oak-----	92
3284A:		
Tice-----	eastern cottonwood--	97
	pin oak-----	87
3284L:		
Tice-----	eastern cottonwood--	97
	pin oak-----	87
3288A:		
Petrolia-----	eastern cottonwood--	97
	pin oak-----	87
3288L:		
Petrolia-----	eastern cottonwood--	97
	pin oak-----	87
3331A:		
Haymond-----	eastern cottonwood--	110
	pin oak-----	99

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
3331L:		
Haymond-----	eastern cottonwood--	110
	pin oak-----	99
3333A:		
Wakeland-----	eastern cottonwood--	99
	pin oak-----	90
3333L:		
Wakeland-----	eastern cottonwood--	99
	pin oak-----	90
3334A:		
Birds-----	eastern cottonwood--	99
	pin oak-----	90
3334L:		
Birds-----	eastern cottonwood--	100
	pin oak-----	92
3382A:		
Belknap-----	eastern cottonwood--	102
	pin oak-----	92
3420A:		
Piopolis-----	eastern cottonwood--	95
	pin oak-----	86
3422A:		
Cape-----	eastern cottonwood--	91
	pin oak-----	83
3422A+:		
Cape-----	eastern cottonwood--	91
	pin oak-----	83
3426A:		
Karnak-----	eastern cottonwood--	84
	pin oak-----	76
3426A+:		
Karnak-----	eastern cottonwood--	84
	pin oak-----	76
3426L:		
Karnak-----	eastern cottonwood--	84
	pin oak-----	76
3449L:		
Armiesburg-----	eastern cottonwood--	102
	pin oak-----	91
Sarpy-----	eastern cottonwood--	94
	pin oak-----	85
3456BL:		
Ware-----	eastern cottonwood--	71
	pin oak-----	64
3597L:		
Armiesburg-----	eastern cottonwood--	109
	pin oak-----	97

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
5079B2:		
Menfro-----	white oak-----	78
	northern red oak----	80
5079C3:		
Menfro-----	white oak-----	69
	northern red oak----	71
5079D3:		
Menfro-----	white oak-----	62
	northern red oak----	64
7084A:		
Okaw-----	eastern cottonwood--	101
	pin oak-----	91
7122B:		
Colp-----	white oak-----	70
	northern red oak----	74
	eastern cottonwood--	104
	pin oak-----	94
7122C2:		
Colp-----	eastern cottonwood--	93
	northern red oak----	66
	white oak-----	62
7122D2:		
Colp-----	white oak-----	57
	northern red oak----	60
	eastern cottonwood--	85
	pin oak-----	77
7131A:		
Alvin-----	white oak-----	80
	northern red oak----	82
	eastern cottonwood--	102
	pin oak-----	92
7131B:		
Alvin-----	white oak-----	78
	northern red oak----	80
	eastern cottonwood--	100
	pin oak-----	90
7131C:		
Alvin-----	white oak-----	77
	northern red oak----	79
	eastern cottonwood--	98
	pin oak-----	88
7131C2:		
Alvin-----	white oak-----	74
flooded-----	northern red oak----	75
	eastern cottonwood--	94
	pin oak-----	85
7131D2:		
Alvin-----	white oak-----	68
	northern red oak----	70
	eastern cottonwood--	87
	pin oak-----	78

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
7338A:		
Hurst-----	white oak-----	70
	northern red oak----	73
	eastern cottonwood--	105
	pin oak-----	94
7338B:		
Hurst-----	white oak-----	69
	northern red oak----	72
	eastern cottonwood--	103
	pin oak-----	92
7401A:		
Okaw-----	eastern cottonwood--	102
	pin oak-----	92
7460A:		
Ginat-----	white oak-----	73
	northern red oak----	79
	eastern cottonwood--	94
	pin oak-----	85
7462A:		
Sciotoville-----	white oak-----	79
	northern red oak----	74
	eastern cottonwood--	105
	pin oak-----	94
7462B:		
Sciotoville-----	white oak-----	78
	northern red oak----	73
	eastern cottonwood--	104
	pin oak-----	93
7462C2:		
Sciotoville-----	white oak-----	73
	northern red oak----	68
	eastern cottonwood--	97
	pin oak-----	87
7462C3:		
Sciotoville-----	white oak-----	66
	northern red oak----	62
	eastern cottonwood--	88
	pin oak-----	83
7462D2:		
Sciotoville-----	white oak-----	66
	northern red oak----	62
	eastern cottonwood--	88
	pin oak-----	79
7462D3:		
Sciotoville-----	white oak-----	60
	northern red oak----	56
	eastern cottonwood--	80
	pin oak-----	71
7463A:		
Wheeling-----	white oak-----	76
	northern red oak----	81
	eastern cottonwood--	101
	pin oak-----	91

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
7463B:		
Wheeling-----	white oak-----	75
	northern red oak----	80
	eastern cottonwood--	100
	pin oak-----	90
7463C2:		
Wheeling-----	white oak-----	70
	northern red oak----	75
	eastern cottonwood--	93
	pin oak-----	84
7463D3:		
Wheeling-----	white oak-----	58
	northern red oak----	62
	eastern cottonwood--	77
	pin oak-----	69
7711A:		
Hatfield-----	white oak-----	74
	northern red oak----	71
	eastern cottonwood--	71
	pin oak-----	85
7711B:		
Hatfield-----	white oak-----	73
	northern red oak----	70
	eastern cottonwood--	70
	pin oak-----	84
8070A:		
Beaucoup-----	eastern cottonwood--	97
	pin oak-----	87
8071A:		
Darwin-----	eastern cottonwood--	88
	pin oak-----	80
8072A:		
Sharon-----	eastern cottonwood--	103
	pin oak-----	93
8085A:		
Jacob-----	eastern cottonwood--	85
	pin oak-----	77
8108A:		
Bonnie-----	eastern cottonwood--	100
	pin oak-----	90
8109A:		
Racoon-----	eastern cottonwood--	103
	pin oak-----	93
8162A:		
Gorham-----	eastern cottonwood--	97
	pin oak-----	88
8178A:		
Ruark-----	white oak-----	73
	northern red oak----	73
	eastern cottonwood--	92
	pin oak-----	84

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
8180A:		
Dupo-----	eastern cottonwood--	102
	pin oak-----	92
8184A:		
Roby-----	eastern cottonwood--	102
	pin oak-----	92
Ruark-----	white oak-----	73
	northern red oak---	73
	eastern cottonwood--	92
	pin oak-----	84
8184B:		
Roby-----	white oak-----	73
	northern red oak---	73
	eastern cottonwood--	92
	pin oak-----	84
8284A:		
Tice-----	eastern cottonwood--	97
	pin oak-----	87
8288A:		
Petrolia-----	eastern cottonwood--	97
	pin oak-----	87
8331A:		
Haymond-----	eastern cottonwood--	110
	pin oak-----	99
8333A:		
Wakeland-----	eastern cottonwood--	99
	pin oak-----	90
8334A:		
Birds-----	eastern cottonwood--	102
	pin oak-----	92
8382A:		
Belknap-----	eastern cottonwood--	102
	pin oak-----	92
8420A:		
Piopolis-----	eastern cottonwood--	95
	pin oak-----	86
8422A:		
Cape-----	eastern cottonwood--	91
	pin oak-----	83
8422A+:		
Cape-----	eastern cottonwood--	91
	pin oak-----	83
8426A:		
Karnak-----	eastern cottonwood--	84
	pin oak-----	76

Soil Survey of Pulaski County, Illinois

Table 11.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity	
	Common trees	Site index
8426A+:		
Karnak-----	eastern cottonwood--	84
	pin oak-----	76
8597A:		
Armiesburg-----	eastern cottonwood--	109
	pin oak-----	97
MW. Miscellaneous water		
W. Water		

Table 12.—Windbreaks and Environmental Plantings

(Absence of an entry indicates that trees generally do not grow to the given height)

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
79B: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
79C: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
79C2: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
79C3: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
79D: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
79D2: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
79D3: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
79E: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.—Windbreaks and Environmental Plantings—Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
79E2: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
79E3: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
79F: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
164A: Stoy-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
164B: Stoy-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
165A: Weir-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
175B: Lamont-----	American hazelnut, black chokeberry, common winterberry, coralberry, gray dogwood, mapleleaf viburnum	American plum, American witchhazel, Arnold hawthorn, blackhaw, common chokecherry, common serviceberry, prairie crabapple	Douglas fir, arborvitae, black walnut, blackgum, blue spruce, bur oak, eastern redcedar, green ash, pecan	Norway spruce, common hackberry, pin oak, tuliptree	Carolina poplar, eastern white pine
214B: Hosmer-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
214C: Hosmer-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
214C2: Hosmer-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
214C3: Hosmer-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
214D2: Hosmer-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
214D3: Hosmer-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
216D2: Stookey-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
216E: Stookey-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
216E2: Stookey-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
216E3: Stookey-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
216F: Stookey-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
216G: Stookey-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
308B: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
308C: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
308C2: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
308C3: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
308D: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
308D2: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
308D3: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
308E: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
308E2: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
308E3: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
308F: Alford-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
453C: Muren-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
453C3: Muren-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
453D2: Muren-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
453D3: Muren-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
477B: Winfield-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
477C2: Winfield-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
477C3: Winfield-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
477D2: Winfield-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
477D3: Winfield-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
694D2: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
Baxter-----	American plum, black chokeberry, blackhaw, common juniper, gray dogwood, mapleleaf viburnum	cockspur hawthorn, common serviceberry, eastern redcedar, nannyberry, prairie crabapple	bur oak, chinkapin oak, green ash, thornless honeylocust	---	---
694F: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
Baxter-----	American plum, black chokeberry, blackhaw, common juniper, gray dogwood, mapleleaf viburnum	cockspur hawthorn, common serviceberry, eastern redcedar, nannyberry, prairie crabapple	bur oak, chinkapin oak, green ash, thornless honeylocust	---	---
717F: Stookey-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
717F: Clarksville-----	American plum, black chokeberry, blackhaw, common juniper, gray dogwood, mapleleaf viburnum	cockspur hawthorn, common serviceberry, eastern redcedar, nannyberry, prairie crabapple	bur oak, chinkapin oak, green ash, thornless honeylocust	---	---
717G: Clarksville-----	American plum, black chokeberry, blackhaw, common juniper, gray dogwood, mapleleaf viburnum	cockspur hawthorn, common serviceberry, eastern redcedar, nannyberry, prairie crabapple	bur oak, chinkapin oak, green ash, thornless honeylocust	---	---
Stookey-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
801B: Orthents-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
802D: Orthents-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
864. Pits, quarries					
865. Pits, gravel					
1843A: Bonnie-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
Petrolia-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
1845A: Darwin-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
1845A: Jacob-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
1846A: Karnak-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
Cape-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3070A: Beaucoup-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3070L: Beaucoup-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3071A: Darwin-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3072A: Sharon-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
3108A: Bonnie-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3162L: Gorham-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3180A: Dupo-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3284A: Tice-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3284L: Tice-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3288A: Petrolia-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3288L: Petrolia-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3331A: Haymond-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
3331L: Haymond-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3333A: Wakeland-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3333L: Wakeland-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3334A: Birds-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3334L: Birds-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3382A: Belknap-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3420A: Piopolis-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3422A: Cape-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3422A+: Cape-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3426A: Karnak-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3426A+: Karnak-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3426L: Karnak-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
3449L: Armiesburg-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
Sarpy-----	American cranberrybush, American hazelnut, black chokeberry, common chokecherry, common elderberry, common juniper, coralberry, mapleleaf viburnum, silky dogwood	American plum, bur oak, chinkapin oak, common serviceberry, eastern redcedar, nannyberry, prairie crabapple, roughleaf dogwood, smooth sumac	black oak, common hackberry, eastern white pine, green ash	Carolina poplar	---

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
3456BL: Ware-----	American hazelnut, black chokeberry, common winterberry, coralberry, gray dogwood, mapleleaf viburnum	American plum, American witchhazel, Arnold hawthorn, blackhaw, common chokecherry, common serviceberry, prairie crabapple	Douglas fir, arborvitae, black walnut, blackgum, blue spruce, bur oak, eastern redcedar, green ash, pecan	Norway spruce, common hackberry, pin oak, tuliptree	Carolina poplar, eastern white pine
3597L: Armiesburg-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
5079B2: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
5079C3: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
5079D3: Menfro-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
7084A: Okaw-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
7122B: Colp-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar, green ash	Norway spruce	Carolina poplar

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
7122C2: Colp-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
7122D2: Colp-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
7131A: Alvin-----	American hazelnut, black chokeberry, common winterberry, coralberry, gray dogwood, mapleleaf viburnum	American plum, American witchhazel, Arnold hawthorn, blackhaw, common chokecherry, common serviceberry, prairie crabapple	Douglas fir, arborvitae, black walnut, blackgum, blue spruce, bur oak, eastern redcedar, green ash, pecan	Norway spruce, common hackberry, pin oak, tuliptree	Carolina poplar, eastern white pine
7131B: Alvin-----	American hazelnut, black chokeberry, common winterberry, coralberry, gray dogwood, mapleleaf viburnum	American plum, American witchhazel, Arnold hawthorn, blackhaw, common chokecherry, common serviceberry, prairie crabapple	Douglas fir, arborvitae, black walnut, blackgum, blue spruce, bur oak, eastern redcedar, green ash, pecan	Norway spruce, common hackberry, pin oak, tuliptree	Carolina poplar, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
7131C: Alvin-----	American hazelnut, black chokeberry, common winterberry, coralberry, gray dogwood, mapleleaf viburnum	American plum, American witchhazel, Arnold hawthorn, blackhaw, common chokecherry, common serviceberry, prairie crabapple	Douglas fir, arborvitae, black walnut, blackgum, blue spruce, bur oak, eastern redcedar, green ash, pecan	Norway spruce, common hackberry, pin oak, tuliptree	Carolina poplar, eastern white pine
7131C2: Alvin-----	American hazelnut, black chokeberry, common winterberry, coralberry, gray dogwood, mapleleaf viburnum	American plum, American witchhazel, Arnold hawthorn, blackhaw, common chokecherry, common serviceberry, prairie crabapple	Douglas fir, arborvitae, black walnut, blackgum, blue spruce, bur oak, eastern redcedar, green ash, pecan	Norway spruce, common hackberry, pin oak, tuliptree	Carolina poplar, eastern white pine
7131D2: Alvin-----	American hazelnut, black chokeberry, common winterberry, coralberry, gray dogwood, mapleleaf viburnum	American plum, American witchhazel, Arnold hawthorn, blackhaw, common chokecherry, common serviceberry, prairie crabapple	Douglas fir, arborvitae, black walnut, blackgum, blue spruce, bur oak, eastern redcedar, green ash, pecan	Norway spruce, common hackberry, pin oak, tuliptree	Carolina poplar, eastern white pine
7338A: Hurst-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
7338B: Hurst-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
7401A: Okaw-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
7460A: Ginat-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
7462A: Sciotoville-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
7462B: Sciotoville-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
7462C2: Sciotoville-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
7462C3: Sciotoville-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
7462D2: Sciotoville-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar
7462D3: Sciotoville-----	American cranberrybush, American hazelnut, black chokeberry, common juniper, coralberry, gray dogwood, mapleleaf viburnum, silky dogwood	American plum, American witchhazel, Washington hawthorn, blackhaw, common chokecherry, common serviceberry, nannyberry, prairie crabapple, roughleaf dogwood, staghorn sumac	Virginia pine, arborvitae, black oak, blackgum, bur oak, chinkapin oak, common hackberry, eastern redcedar,	Norway spruce	Carolina poplar

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
7463A: Wheeling-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
7463B: Wheeling-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
7463C2: Wheeling-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
7463D3: Wheeling-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
7711A: Hatfield-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
7711B: Hatfield-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8070A: Beaucoup-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
8071A: Darwin-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8072A: Sharon-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8085A: Jacob-----	black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
8108A: Bonnie-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8109A: Raccoon-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8162A: Gorham-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
8178A: Ruark-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8180A: Dupo-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8184A: Roby-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
8184B: Roby-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8284A: Tice-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8288A: Petrolia-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8331A: Haymond-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
8333A: Wakeland-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8334A: Birds-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8382A: Belknap-----	American cranberrybush, Canada yew, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, northern spicebush, redosier dogwood, silky dogwood	blackhaw, cockspur hawthorn, common pawpaw, common serviceberry, prairie crabapple, roughleaf dogwood, rusty blackhaw, southern arrowwood, witchhazel	Austrian pine, Douglas fir, arborvitae, blue spruce, common persimmon, eastern redcedar, green hawthorn, nannyberry, pecan, shingle oak	Norway spruce, blackgum, common hackberry, green ash, red maple, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
8420A: Piopolis-----	American cranberrybush, American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8422A: Cape-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8422A+: Cape-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak

Table 12.--Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
8426A: Karnak-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8426A+: Karnak-----	American cranberrybush, black chokeberry, buttonbush, common elderberry, common ninebark, common winterberry, gray dogwood, highbush blueberry, northern spicebush, redosier dogwood, silky dogwood	cockspur hawthorn, hazel alder, nannyberry, roughleaf dogwood	arborvitae, blackgum, common hackberry, green hawthorn, northern white-cedar, shingle oak	sweetgum, red maple, river birch, swamp white oak	Carolina poplar, eastern cottonwood, pin oak
8597A: Armiesburg-----	American hazelnut, black chokeberry, common elderberry, common juniper, common ninebark, common winterberry, coralberry, mapleleaf viburnum, redosier dogwood, silky dogwood	American plum, American witchhazel, blackhaw, common chokecherry, common serviceberry, prairie crabapple, roughleaf dogwood, smooth sumac, southern arrowwood	Washington hawthorn, arborvitae, blue spruce, common persimmon, eastern redcedar, nannyberry, pecan, white oak	Douglas fir, Norway spruce, black walnut, blackgum, common hackberry, tuliptree, northern red oak, pin oak	Carolina poplar, eastern cottonwood, eastern white pine
MW. Miscellaneous water					
W. Water					

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Not limited		Not limited		Somewhat limited Slope	0.50
79C: Menfro-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
79C2: Menfro-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
79C3: Menfro-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
79D: Menfro-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
79D2: Menfro-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
79D3: Menfro-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
79E: Menfro-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
79E2: Menfro-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
79E3: Menfro-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
79F: Menfro-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
164A: Stoy-----	Somewhat limited Slow water movement Depth to saturated zone	0.96 0.39	Somewhat limited Slow water movement Depth to saturated zone	0.96 0.19	Somewhat limited Slow water movement Depth to saturated zone	0.96 0.39

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164B: Stoy-----	Somewhat limited Slow water movement	0.96	Somewhat limited Slow water movement	0.96	Somewhat limited Slow water movement	0.96
	Depth to saturated zone	0.39	Depth to saturated zone	0.19	Slope Depth to saturated zone	0.50 0.39
165A: Weir-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
	Slow water movement	1.00	Slow water movement	1.00	Slow water movement	1.00
	Ponding	1.00	Ponding	1.00	Ponding	1.00
175B: Lamont-----	Somewhat limited Too sandy	0.12	Somewhat limited Too sandy	0.12	Somewhat limited Slope Too sandy	0.50 0.12
214B: Hosmer-----	Somewhat limited Depth to cemented pan	0.65	Somewhat limited Depth to cemented pan	0.65	Somewhat limited Depth to cemented pan Slope	0.64 0.50
214C: Hosmer-----	Somewhat limited Depth to cemented pan Slope	0.65 0.01	Somewhat limited Depth to cemented pan Slope	0.65 0.01	Very limited Slope Depth to cemented pan	1.00 0.64
214C2: Hosmer-----	Somewhat limited Depth to cemented pan Slope	0.86 0.01	Somewhat limited Depth to cemented pan Slope	0.86 0.01	Very limited Slope Depth to cemented pan	1.00 0.86
214C3: Hosmer-----	Somewhat limited Depth to cemented pan Slope	0.95 0.01	Somewhat limited Depth to cemented pan Slope	0.95 0.01	Very limited Slope Depth to cemented pan	1.00 0.95
214D2: Hosmer-----	Somewhat limited Slope Depth to cemented pan	0.96 0.86	Somewhat limited Slope Depth to cemented pan	0.96 0.86	Very limited Slope Depth to cemented pan	1.00 0.86
214D3: Hosmer-----	Somewhat limited Slope Depth to cemented pan	0.96 0.95	Somewhat limited Slope Depth to cemented pan	0.96 0.95	Very limited Slope Depth to cemented pan	1.00 0.95
216D2: Stookey-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 13.--Recreational Development, Part I--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
216E: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216E2: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216E3: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216F: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216G: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
308B: Alford-----	Not limited		Not limited		Somewhat limited Slope	0.50
308C: Alford-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
308C2: Alford-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
308C3: Alford-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
308D: Alford-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
308D2: Alford-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
308D3: Alford-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
308E: Alford-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
308E2: Alford-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
308E3: Alford-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308F: Alford-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
453C: Muren-----	Somewhat limited Depth to saturated zone Slope	0.95 0.01	Somewhat limited Depth to saturated zone Slope	0.68 0.01	Very limited Slope Depth to saturated zone	1.00 0.95
453C3: Muren-----	Somewhat limited Depth to saturated zone Slope	0.95 0.01	Somewhat limited Depth to saturated zone Slope	0.68 0.01	Very limited Slope Depth to saturated zone	1.00 0.95
453D2: Muren-----	Somewhat limited Slope Depth to saturated zone	0.96 0.95	Somewhat limited Slope Depth to saturated zone	0.96 0.68	Very limited Slope Depth to saturated zone	1.00 0.95
453D3: Muren-----	Somewhat limited Slope Depth to saturated zone	0.96 0.95	Somewhat limited Slope Depth to saturated zone	0.96 0.68	Very limited Slope Depth to saturated zone	1.00 0.95
477B: Winfield-----	Not limited		Not limited		Somewhat limited Slope	0.50
477C2: Winfield-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
477C3: Winfield-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
477D2: Winfield-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
477D3: Winfield-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
694D2: Menfro-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
Baxter-----	Somewhat limited Slope Gravel content	0.96 0.11	Somewhat limited Slope Gravel content	0.96 0.11	Very limited Slope Gravel content	1.00 1.00
694F: Menfro-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
694F: Baxter-----	Very limited Slope Gravel content	1.00 0.11	Very limited Slope Gravel content	1.00 0.11	Very limited Slope Gravel content	1.00 1.00
717F: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Clarksville-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Gravel content	1.00 0.99
717G: Clarksville-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Gravel content	1.00 0.99
Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
801B: Orthents-----	Not limited		Not limited		Somewhat limited Slope	0.12
802D: Orthents-----	Somewhat limited Slope Slow water movement	0.37 0.21	Somewhat limited Slope Slow water movement	0.37 0.21	Very limited Slope Slow water movement	1.00 0.21
864: Pits, quarries-----	Not rated		Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.40 0.21	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21
Petrolia-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.40 0.21	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1845A: Darwin-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement Too clayey	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement Too clayey Flooding	1.00 1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Ponding Slow water movement Too clayey	1.00 1.00 1.00 1.00 1.00
Jacob-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement Too clayey	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement Too clayey Flooding	1.00 1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Ponding Slow water movement Too clayey	1.00 1.00 1.00 1.00 1.00
1846A: Karnak-----	Very limited Depth to saturated zone Flooding Ponding Too clayey Slow water movement	1.00 1.00 1.00 1.00 0.99	Very limited Ponding Depth to saturated zone Too clayey Slow water movement Flooding	1.00 1.00 1.00 0.99 0.40	Very limited Depth to saturated zone Flooding Ponding Too clayey Slow water movement	1.00 1.00 1.00 1.00 0.99
Cape-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00
3070A: Beaucoup-----	Very limited Depth to saturated zone Flooding Ponding	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Ponding	1.00 1.00 1.00
3070L: Beaucoup-----	Very limited Depth to saturated zone Flooding Ponding	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Ponding	1.00 1.00 1.00
3071A: Darwin-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement Too clayey	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement Too clayey Flooding	1.00 1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Ponding Slow water movement Too clayey	1.00 1.00 1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3072A: Sharon-----	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
3108A: Bonnie-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.40 0.21	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21
3162L: Gorham-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.40 0.21	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21
3180A: Dupo-----	Very limited Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.96	Somewhat limited Slow water movement Depth to saturated zone Flooding	0.96 0.95 0.40	Very limited Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.96
3284A: Tice-----	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding	0.94 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
3284L: Tice-----	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding	0.94 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
3288A: Petrolia-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.40 0.21	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21
3288L: Petrolia-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.40 0.21	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3331A: Haymond-----	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
3331L: Haymond-----	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
3333A: Wakeland-----	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding	0.94 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
3333L: Wakeland-----	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding	0.94 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
3334A: Birds-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.40 0.21	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21
3334L: Birds-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.40 0.21	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21
3382A: Belknap-----	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding	0.94 0.40	Very limited Depth to saturated zone Flooding	1.00 1.00
3420A: Piopolis-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.96	Very limited Ponding Depth to saturated zone Slow water movement Flooding	1.00 1.00 0.96 0.40	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.96
3422A: Cape-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 13.--Recreational Development, Part I--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3422A+: Cape-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00
3426A: Karnka-----	Very limited Depth to saturated zone Flooding Ponding Too clayey Slow water movement	1.00 1.00 1.00 1.00 0.99	Very limited Ponding Depth to saturated zone Too clayey Slow water movement Flooding	1.00 1.00 1.00 0.99 0.40	Very limited Depth to saturated zone Flooding Ponding Too clayey Slow water movement	1.00 1.00 1.00 1.00 0.99
3426A+: Karnak-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.99	Very limited Ponding Depth to saturated zone Slow water movement Flooding	1.00 1.00 0.99 0.40	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.99
3426L: Karnak-----	Very limited Depth to saturated zone Flooding Ponding Too clayey Slow water movement	1.00 1.00 1.00 1.00 0.99	Very limited Ponding Depth to saturated zone Too clayey Slow water movement Flooding	1.00 1.00 1.00 0.99 0.40	Very limited Depth to saturated zone Flooding Ponding Too clayey Slow water movement	1.00 1.00 1.00 1.00 0.99
3449L: Armiesburg-----	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
Sarpy-----	Very limited Flooding Too sandy	1.00 0.68	Somewhat limited Too sandy Flooding	0.68 0.40	Very limited Flooding Too sandy	1.00 0.68
3456BL: Ware-----	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding Slope	1.00 0.50
3597L: Armiesburg-----	Very limited Flooding	1.00	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
5079B2: Menfro-----	Not limited		Not limited		Somewhat limited Slope	0.50

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5079C3: Menfro-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Very limited Slope	1.00
5079D3: Menfro-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
7084A: Okaw-----	Very limited Depth to saturated zone	1.00	Very limited Ponding Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
	Flooding	1.00	Slow water movement	1.00	Ponding	1.00
	Ponding	1.00			Slow water movement	1.00
	Slow water movement	1.00				
7122B: Colp-----	Very limited Flooding	1.00	Somewhat limited Slow water movement	0.96	Somewhat limited Slow water movement	0.96
	Slow water movement	0.96			Slope	0.50
7122C2: Colp-----	Very limited Flooding	1.00	Somewhat limited Slow water movement	0.96	Very limited Slope	1.00
	Slow water movement	0.96			Slow water movement	0.96
7122D2: Colp-----	Very limited Flooding	1.00	Somewhat limited Slope	0.96	Very limited Slope	1.00
	Slope	0.96	Slow water movement	0.96	Slow water movement	0.96
	Slow water movement	0.96				
7131A: Alvin-----	Very limited Flooding	1.00	Not limited		Not limited	
7131B: Alvin-----	Very limited Flooding	1.00	Not limited		Somewhat limited Slope	0.50
7131C: Alvin-----	Very limited Flooding	1.00	Somewhat limited Slope	0.01	Very limited Slope	1.00
	Slope	0.01				
7131C2: Alvin-----	Very limited Flooding	1.00	Somewhat limited Slope	0.01	Very limited Slope	1.00
	Slope	0.01				
7131D2: Alvin-----	Very limited Flooding	1.00	Somewhat limited Slope	0.96	Very limited Slope	1.00
	Slope	0.96				

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7338A: Hurst-----	Very limited Flooding Slow water movement Depth to saturated zone	1.00 1.00 0.44	Very limited Slow water movement Depth to saturated zone	1.00 0.22	Very limited Slow water movement Depth to saturated zone	1.00 0.44
7338B: Hurst-----	Very limited Flooding Slow water movement Depth to saturated zone	1.00 1.00 0.44	Very limited Slow water movement Depth to saturated zone	1.00 0.22	Very limited Slow water movement Slope Depth to saturated zone	1.00 0.50 0.44
7401A: Okaw-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Slow water movement	1.00 1.00 1.00
7460A: Ginat-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Slow water movement	1.00 1.00 1.00
7462A: Sciotoville-----	Very limited Flooding Slow water movement Depth to saturated zone	1.00 0.43 0.07	Somewhat limited Slow water movement Depth to saturated zone	0.43 0.03	Somewhat limited Slow water movement Depth to saturated zone	0.43 0.07
7462B: Sciotoville-----	Very limited Flooding Slow water movement Depth to saturated zone	1.00 0.43 0.07	Somewhat limited Slow water movement Depth to saturated zone	0.43 0.03	Somewhat limited Slope Slow water movement Depth to saturated zone	0.50 0.43 0.07
7462C2: Sciotoville-----	Very limited Flooding Slow water movement Depth to saturated zone Slope	1.00 0.43 0.07 0.01	Somewhat limited Slow water movement Depth to saturated zone Slope	0.43 0.03 0.01	Very limited Slope Slow water movement Depth to saturated zone	1.00 0.43 0.07

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7462C3: Sciotoville-----	Very limited Flooding	1.00	Somewhat limited Slow water movement	0.43	Very limited Slope	1.00
	Slow water movement	0.43	Depth to saturated zone	0.03	Slow water movement	0.43
	Depth to saturated zone	0.07	Slope	0.01	Depth to saturated zone	0.07
	Slope	0.01				
7462D2: Sciotoville-----	Very limited Flooding	1.00	Somewhat limited Slope	0.96	Very limited Slope	1.00
	Slope	0.96	Slow water movement	0.43	Slow water movement	0.43
	Slow water movement	0.43	Depth to saturated zone	0.03	Depth to saturated zone	0.07
	Depth to saturated zone	0.07				
7462D3: Sciotoville-----	Very limited Flooding	1.00	Somewhat limited Slope	0.96	Very limited Slope	1.00
	Slope	0.96	Slow water movement	0.43	Slow water movement	0.43
	Slow water movement	0.43	Depth to saturated zone	0.03	Depth to saturated zone	0.07
	Depth to saturated zone	0.07				
7463A: Wheeling-----	Very limited Flooding	1.00	Not limited		Not limited	
7463B: Wheeling-----	Very limited Flooding	1.00	Not limited		Somewhat limited Slope	0.50
7463C2: Wheeling-----	Very limited Flooding	1.00	Somewhat limited Slope	0.01	Very limited Slope	1.00
	Slope	0.01				
7463D3: Wheeling-----	Very limited Flooding	1.00	Somewhat limited Slope	0.96	Very limited Slope	1.00
	Slope	0.96				
7711A: Hatfield-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
	Flooding	1.00	Slow water movement	1.00	Slow water movement	1.00
	Slow water movement	1.00				
7711B: Hatfield-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
	Flooding	1.00	Slow water movement	1.00	Slow water movement	1.00
	Slow water movement	1.00			Slope	0.50

Soil Survey of Pulaski County, Illinois

Table 13.--Recreational Development, Part I--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8070A: Beaucoup-----	Very limited Depth to saturated zone Flooding Ponding	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.60
8071A: Darwin-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement Too clayey	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement Too clayey	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Slow water movement Too clayey Flooding	1.00 1.00 1.00 1.00 0.60
8072A: Sharon-----	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
8085A: Jacob-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement Too clayey	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement Too clayey	1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Slow water movement Too clayey Flooding	1.00 1.00 1.00 1.00 0.60
8108A: Bonnie-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 0.21	Very limited Depth to saturated zone Ponding Flooding Slow water movement	1.00 1.00 0.60 0.21
8109A: Raccoon-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.96	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 0.96	Very limited Depth to saturated zone Ponding Slow water Flooding	1.00 1.00 0.96 0.60
8162A: Gorham-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 0.21	Very limited Depth to saturated zone Ponding Flooding Slow water movement	1.00 1.00 0.60 0.21

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8178A: Ruark-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 0.21	Very limited Depth to saturated zone Ponding Flooding Slow water movement	1.00 1.00 0.60 0.21
8180A: Dupo-----	Very limited Depth to saturated zone Flooding Slow water movement	1.00 1.00 0.96	Somewhat limited Slow water movement Depth to saturated zone	0.96 0.95	Very limited Depth to saturated zone Slow water movement Flooding	1.00 0.96 0.60
8184A: Roby-----	Very limited Flooding Depth to saturated zone Too sandy	1.00 0.39 0.01	Somewhat limited Depth to saturated zone Too sandy	0.19 0.01	Somewhat limited Flooding Depth to saturated zone Too sandy	0.60 0.39 0.01
8184B: Roby-----	Very limited Flooding Depth to saturated zone Too sandy	1.00 0.39 0.01	Somewhat limited Depth to saturated zone Too sandy	0.19 0.01	Somewhat limited Flooding Slope Depth to saturated zone Too sandy	0.60 0.50 0.39 0.01
8284A: Tice-----	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding	1.00 0.60
8288A: Petrolia-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 0.21	Very limited Depth to saturated zone Ponding Flooding Slow water movement	1.00 1.00 0.60 0.21
8331A: Haymond-----	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
8333A: Wakeland-----	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding	1.00 0.60

Soil Survey of Pulaski County, Illinois

Table 13.--Recreational Development, Part I--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8334A: Birds-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.21	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 0.21	Very limited Depth to saturated zone Ponding Flooding Slow water movement	1.00 1.00 0.60 0.21
8382A: Belknap-----	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Depth to saturated zone	0.94	Very limited Depth to saturated zone Flooding	1.00 0.60
8420A: Piopolis-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 0.96	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 0.96	Very limited Depth to saturated zone Ponding Slow water Flooding	1.00 1.00 0.96 0.60
8422A: Cape-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Slow water movement Flooding	1.00 1.00 1.00 0.60
8422A+: Cape-----	Very limited Depth to saturated zone Flooding Ponding Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Slow water movement Flooding	1.00 1.00 1.00 0.60
8426A: Karnak-----	Very limited Depth to saturated zone Flooding Ponding Too clayey Slow water movement	1.00 1.00 1.00 1.00 0.99	Very limited Ponding Depth to saturated zone Too clayey Slow water movement	1.00 1.00 1.00 0.99	Very limited Depth to saturated zone Ponding Too clayey Slow water movement Flooding	1.00 1.00 1.00 0.99 0.60
8426A+: Karnak-----	Very limited Depth to saturated zone Flooding Ponding Too clayey Slow water movement	1.00 1.00 1.00 1.00 0.99	Very limited Ponding Depth to saturated zone Too clayey Slow water movement	1.00 1.00 1.00 0.99	Very limited Depth to saturated zone Ponding Too clayey Slow water movement Flooding	1.00 1.00 1.00 0.99 0.60

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part I—Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8597A: Armiesburg-----	Very limited Flooding	1.00	Not limited		Somewhat limited Flooding	0.60
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Not limited		Not limited		Not limited	
79C: Menfro-----	Not limited		Not limited		Somewhat limited Slope	0.01
79C2: Menfro-----	Not limited		Not limited		Somewhat limited Slope	0.01
79C3: Menfro-----	Not limited		Not limited		Somewhat limited Slope	0.01
79D: Menfro-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
79D2: Menfro-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
79D3: Menfro-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
79E: Menfro-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00
79E2: Menfro-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00
79E3: Menfro-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00
79F: Menfro-----	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.22	Very limited Slope	1.00
164A: Stoy-----	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.19

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164B: Stoy-----	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.19
165A: Weir-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00
175B: Lamont-----	Somewhat limited Too sandy	0.12	Somewhat limited Too sandy	0.12	Not limited	
214B: Hosmer-----	Not limited		Not limited		Somewhat limited Depth to cemented pan	0.64
214C: Hosmer-----	Not limited		Not limited		Somewhat limited Depth to cemented pan Slope	0.64 0.01
214C2: Hosmer-----	Not limited		Not limited		Somewhat limited Depth to cemented pan Slope	0.86 0.01
214C3: Hosmer-----	Not limited		Not limited		Somewhat limited Depth to cemented pan Slope	0.95 0.01
214D2: Hosmer-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope Depth to cemented pan	0.96 0.86
214D3: Hosmer-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope Depth to cemented pan	0.96 0.95
216D2: Stookey-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
216E: Stookey-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
216E2: Stookey-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00
216E3: Stookey-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00
216F: Stookey-----	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.22	Very limited Slope	1.00
216G: Stookey-----	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
308B: Alford-----	Not limited		Not limited		Not limited	
308C: Alford-----	Not limited		Not limited		Somewhat limited Slope	0.01
308C2: Alford-----	Not limited		Not limited		Somewhat limited Slope	0.01
308C3: Alford-----	Not limited		Not limited		Somewhat limited Slope	0.01
308D: Alford-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
308D2: Alford-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
308D3: Alford-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
308E: Alford-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00
308E2: Alford-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00
308E3: Alford-----	Very limited Water erosion Slope	1.00 0.82	Very limited Water erosion	1.00	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308F: Alford-----	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 0.22	Very limited Slope	1.00
453C: Muren-----	Somewhat limited Depth to saturated zone	0.32	Somewhat limited Depth to saturated zone	0.32	Somewhat limited Depth to saturated zone Slope	0.68 0.01
453C3: Muren-----	Somewhat limited Depth to saturated zone	0.32	Somewhat limited Depth to saturated zone	0.32	Somewhat limited Depth to saturated zone Slope	0.68 0.01
453D2: Muren-----	Very limited Water erosion Depth to saturated zone	1.00 0.32	Very limited Water erosion Depth to saturated zone	1.00 0.32	Somewhat limited Slope Depth to saturated zone	0.96 0.68
453D3: Muren-----	Very limited Water erosion Depth to saturated zone	1.00 0.32	Very limited Water erosion Depth to saturated zone	1.00 0.32	Somewhat limited Slope Depth to saturated zone	0.96 0.68
477B: Winfield-----	Not limited		Not limited		Not limited	
477C2: Winfield-----	Not limited		Not limited		Somewhat limited Slope	0.01
477C3: Winfield-----	Not limited		Not limited		Somewhat limited Slope	0.01
477D2: Winfield-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
477D3: Winfield-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
694D2: Menfro-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
Baxter-----	Not limited		Not limited		Somewhat limited Slope Gravel content Large stones content	0.96 0.11 0.01

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
694F: Menfro-----	Very limited Water erosion Slope	1.00 1.00	Very limited Water erosion Slope	1.00 0.04	Very limited Slope	1.00
Baxter-----	Very limited Slope	1.00	Somewhat limited Slope	0.04	Very limited Slope Gravel content Large stones content	1.00 0.11 0.01
717F: Stookey-----	Very limited Water erosion Slope	1.00 1.00	Very limited Water erosion Slope	1.00 0.04	Very limited Slope	1.00
Clarksville-----	Very limited Slope	1.00	Somewhat limited Slope	0.04	Very limited Slope Large stones content	1.00 0.20
717G: Clarksville-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Large stones content	1.00 0.20
Stookey-----	Very limited Slope Water erosion	1.00 1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
801B: Orthents-----	Not limited		Not limited		Not limited	
802D: Orthents-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.37
864: Pits, quarries-----	Not rated		Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
Petrolia-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1845A: Darwin-----	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00 1.00
Jacob-----	Very limited Depth to saturated zone Too clayey Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Too clayey Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Too clayey Ponding Flooding Depth to saturated zone	1.00 1.00 1.00 1.00
1846A: Karnak-----	Very limited Depth to saturated zone Too clayey Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Too clayey Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Too clayey Ponding Flooding Depth to saturated zone	1.00 1.00 1.00 1.00
Cape-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3070A: Beaucoup-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3070L: Beaucoup-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3071A: Darwin-----	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00 1.00
3072A: Sharon-----	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
3108A: Bonnie-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3162L: Gorham-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3180A: Dupo-----	Somewhat limited Depth to saturated zone Flooding	0.89 0.40	Somewhat limited Depth to saturated zone Flooding	0.89 0.40	Very limited Flooding Depth to saturated zone	1.00 0.95
3284A: Tice-----	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Very limited Flooding Depth to saturated zone	1.00 0.94
3284L: Tice-----	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Very limited Flooding Depth to saturated zone	1.00 0.94
3288A: Petrolia-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3288L: Petrolia-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3331A: Haymond-----	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
3331L: Haymond-----	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
3333A: Wakeland-----	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Very limited Flooding Depth to saturated zone	1.00 0.94
3333L: Wakeland-----	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Very limited Flooding Depth to saturated zone	1.00 0.94

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3334A: Birds-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3334L: Birds-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3382A: Belknap-----	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Somewhat limited Depth to saturated zone Flooding	0.86 0.40	Very limited Flooding Depth to saturated zone	1.00 0.94
3420A: Piopolis-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3422A: Cape-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3422A+: Cape-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3426A: Karnak-----	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00 1.00
3426A+: Karnak-----	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.40	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3426L: Karnak-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Ponding Flooding	1.00 1.00
	Ponding	1.00	Ponding	1.00	Depth to saturated zone	1.00
	Too clayey	1.00	Too clayey	1.00	Too clayey	1.00
	Flooding	0.40	Flooding	0.40		
3449L: Armiesburg-----	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
Sarpy-----	Somewhat limited Too sandy	0.68	Somewhat limited Too sandy	0.68	Very limited Flooding	1.00
	Flooding	0.40	Flooding	0.40	Droughty	0.69
3456BL: Ware-----	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
3597L: Armiesburg-----	Somewhat limited Flooding	0.40	Somewhat limited Flooding	0.40	Very limited Flooding	1.00
5079B2: Menfro-----	Not limited		Not limited		Not limited	
5079C3: Menfro-----	Not limited		Not limited		Somewhat limited Slope	0.01
5079D3: Menfro-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
7084A: Okaw-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
	Ponding	1.00	Ponding	1.00		
7122B: Colp-----	Not limited		Not limited		Not limited	
7122C2: Colp-----	Not limited		Not limited		Not limited	
7122D2: Colp-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope	0.96
7131A: Alvin-----	Not limited		Not limited		Not limited	
7131B: Alvin-----	Not limited		Not limited		Not limited	
7131C: Alvin-----	Not limited		Not limited		Somewhat limited Slope	0.01

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7131C2: Alvin-----	Not limited		Not limited		Somewhat limited Slope	0.01
7131D2: Alvin-----	Not limited		Not limited		Somewhat limited Slope	0.96
7338A: Hurst-----	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.22
7338B: Hurst-----	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.22
7401A: Okaw-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
7460A: Ginat-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
7462A: Sciotoville-----	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.03
7462B: Sciotoville-----	Not limited		Not limited		Somewhat limited Depth to saturated zone	0.03
7462C2: Sciotoville-----	Not limited		Not limited		Somewhat limited Depth to saturated zone Slope	0.03 0.01
7462C3: Sciotoville-----	Not limited		Not limited		Somewhat limited Depth to saturated zone Slope	0.03 0.01
7462D2: Sciotoville-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope Depth to saturated zone	0.96 0.03

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7462D3: Sciotoville-----	Very limited Water erosion	1.00	Very limited Water erosion	1.00	Somewhat limited Slope Depth to saturated zone	0.96 0.03
7463A: Wheeling-----	Not limited		Not limited		Not limited	
7463B: Wheeling-----	Not limited		Not limited		Not limited	
7463C2: Wheeling-----	Not limited		Not limited		Somewhat limited Slope	0.01
7463D3: Wheeling-----	Not limited		Not limited		Somewhat limited Slope	0.96
7711A: Hatfield-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
7711B: Hatfield-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
8070A: Beaucoup-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8071A: Darwin-----	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 1.00 0.60
8072A: Sharon-----	Not limited		Not limited		Somewhat limited Flooding	0.60
8085A: Jacob-----	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 1.00 0.60

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8108A: Bonnie-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8109A: Raccoon-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8162A: Gorham-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8178A: Ruark-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8180A: Dupo-----	Somewhat limited Depth to saturated zone	0.89	Somewhat limited Depth to saturated zone	0.89	Somewhat limited Depth to saturated zone Flooding	0.95 0.60
8184A: Roby-----	Somewhat limited Too sandy	0.01	Somewhat limited Too sandy	0.01	Somewhat limited Flooding Depth to saturated zone	0.60 0.19
8184B: Roby-----	Somewhat limited Too sandy	0.01	Somewhat limited Too sandy	0.01	Somewhat limited Flooding Depth to saturated zone	0.60 0.19
8284A: Tice-----	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
8288A: Petrolia-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8331A: Haymond-----	Not limited		Not limited		Somewhat limited Flooding	0.60
8333A: Wakeland-----	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
8334A: Birds-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8382A: Belknap-----	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone	0.86	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
8420A: Piopolis-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8422A: Cape-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8422A+: Cape-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8426A: Karnak-----	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 1.00 0.60
8426A+: Karnak-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60

Soil Survey of Pulaski County, Illinois

Table 13.—Recreational Development, Part II—Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8597A: Armiesburg-----	Not limited		Not limited		Somewhat limited Flooding	0.60
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 14.--Wildlife Habitat

(See text for definitions of terms used in this table. Absence of an entry indicates that no rating is applicable)

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
79B: Menfro-----	Good	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
79C: Menfro-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
79C2: Menfro-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
79C3: Menfro-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
79D: Menfro-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
79D2: Menfro-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
79D3: Menfro-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
79E: Menfro-----	Good	Good	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
79E2: Menfro-----	Very poor.	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
79E3: Menfro-----	Very poor.	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
79F: Menfro-----	Very poor.	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
164A: Stoy-----	Good	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair.
164B: Stoy-----	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
165A: Weir-----	Fair	Fair	Fair	Good	Fair	Good	Good	Fair	Fair	Good.
175B: Lamont-----	Good	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.

Soil Survey of Pulaski County, Illinois

Table 14.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
214B: Hosmer-----	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
214C: Hosmer-----	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
214C2: Hosmer-----	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
214C3: Hosmer-----	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
214D2: Hosmer-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
214D3: Hosmer-----	Poor	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
216D2: Stookey-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
216E: Stookey-----	Very poor.	Poor	Good	Good	Good	Very poor.	Very poor.	Poor	Good	Very poor.
216E2: Stookey-----	Very poor.	Poor	Good	Good	Good	Very poor.	Very poor.	Poor	Good	Very poor.
216E3: Stookey-----	Very poor.	Poor	Good	Good	Good	Very poor.	Very poor.	Poor	Good	Very poor.
216F: Stookey-----	Very poor.	Poor	Good	Good	Good	Very poor.	Very poor.	Poor	Good	Very poor.
216G: Stookey-----	Very poor.	Poor	Good	Good	Good	Very poor.	Very poor.	Poor	Good	Very poor.
308B: Alford-----	Good	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
308C: Alford-----	Good	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
308C2: Alford-----	Good	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
308C3: Alford-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.

Soil Survey of Pulaski County, Illinois

Table 14.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
308D: Alford-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
308D2: Alford-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
308D3: Alford-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
308E: Alford-----	Poor	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
308E2: Alford-----	Poor	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
308E3: Alford-----	Poor	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
308F: Alford-----	Poor	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
453C: Muren-----	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
453C3: Muren-----	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
453D2: Muren-----	Good	Fair	Good	Good	Good	Poor	Poor	Good	Good	Poor.
453D3: Muren-----	Good	Fair	Good	Good	Good	Poor	Poor	Good	Good	Poor.
477B: Winfield-----	Good	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
477C2: Winfield-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
477C3: Winfield-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
477D2: Winfield-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
477D3: Winfield-----	Fair	Good	Good	Good	Good	Very	Very	Good	Good	Very

Soil Survey of Pulaski County, Illinois

Table 14.—Wildlife Habitat—Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
694D2: Menfro-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
Baxter-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
694F: Menfro-----	Very poor.	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
Baxter-----	Very poor.	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
717F: Stookey-----	Very poor.	Poor	Good	Good	Good	Very poor.	Very poor.	Poor	Good	Very poor.
Clarksville--	Very poor.	Poor	Fair	Good	Fair	Very poor.	Very poor.	Poor	Fair	Very poor.
717G: Clarksville--	Very poor.	Poor	Fair	Good	Fair	Very poor.	Very poor.	Poor	Fair	Very poor.
Stookey-----	Very poor.	Poor	Good	Good	Good	Very poor.	Very poor.	Poor	Good	Very poor.
801B: Orthents-----	Good	Good	Good	Good	Good	Fair	Poor	Good	Good	Poor.
802D: Orthents-----	Fair	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
864. Pits, quarries										
864. Pits, gravel										
1843A: Bonnie-----	Poor	Fair	Fair	Fair	Poor	Good	Good	Fair	Fair	Good.
Petrolia-----	Fair	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
1845A: Darwin-----	Poor	Poor	Fair	Poor	Poor	Good	Good	Poor	Poor	Good.
Jacob-----	Very poor.	Poor	Poor	Fair	Very poor.	Fair	Good	Poor	Fair	Good.
1846A: Karnak-----	Very poor.	Very poor.	Very poor.	Poor	Poor	Good	Good	Very poor.	Poor	Good.
Cape-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.

Soil Survey of Pulaski County, Illinois

Table 14.--Wildlife Habitat--Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
3070A: Beaucoup-----	Fair	Fair	Fair	Good	Fair	Good	Good	Fair	Fair	Good.
3070L: Beaucoup-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
3071A: Darwin-----	Poor	Poor	Fair	Poor	Poor	Good	Good	Poor	Poor	Good.
3072A: Sharon-----	Fair	Fair	Fair	Good	Good	Poor	Very poor.	Fair	Good	Very poor.
3108A: Bonnie-----	Poor	Fair	Fair	Fair	Poor	Good	Good	Fair	Fair	Good.
3162L: Gorham-----	Good	Poor	Poor	Poor	Poor	Good	Good	Good	Good	Good.
3180A: Dupo-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair.
3284A: Tice-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair.
3284L: Tice-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair.
3288A: Petrolia-----	Fair	Fair	Fair	Good	Fair	Good	Good	Fair	Fair	Good.
3288L: Petrolia-----	Fair	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
3331A: Haymond-----	Good	Good	Fair	Good	Good	Poor	Poor	Good	Good	Poor.
3331L: Haymond-----	Good	Good	Fair	Good	Good	Poor	Poor	Good	Good	Poor.
3333A: Wakeland-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair.
3333L: Wakeland-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair.
3334A: Birds-----	Good	Fair	Good	Good	Fair	Good	Good	Good	Good	Good.
3334L: Birds-----	Good	Fair	Good	Good	Fair	Good	Good	Good	Good	Good.
3382A: Belknap-----	Fair	Good	Good	Good	Fair	Fair	Fair	Good	Good	Fair.
3420A: Piopolis-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
3422A: Cape-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.

Soil Survey of Pulaski County, Illinois

Table 14.--Wildlife Habitat--Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
3422A+: Cape-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
3426A: Karnak-----	Very poor.	Poor	Poor	Fair	Very poor.	Good	Good	Poor	Fair	Good.
3426A+: Karnak-----	Very poor.	Poor	Poor	Fair	Very poor.	Good	Good	Poor	Fair	Good.
3426L: Karnak-----	Very poor.	Poor	Poor	Fair	Very poor.	Good	Good	Poor	Fair	Good.
3449L: Armiesburg---	Poor	Fair	Good	Good	Good	Poor	Poor	Fair	Good	Poor.
Sarpy-----	Poor	Poor	Fair	Poor	Poor	Very poor.	Very poor.	Poor	Poor	Very poor.
3456BL: Ware-----	Fair	Good	Good	Good	Good	Fair	Poor	Good	Good	Fair.
3597L: Armiesburg---	Poor	Fair	Good	Good	Good	Poor	Poor	Fair	Good	Poor.
5079B2: Menfro-----	Good	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
5079C3: Menfro-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
5079D3: Menfro-----	Poor	Fair	Good	Good	Good	Very poor.	Very poor.	Fair	Good	Very poor.
7084A: Okaw-----	Fair	Fair	Fair	Fair	Poor	Good	Good	Fair	Fair	Good.
7122B: Colp-----	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
7122C2: Colp-----	Fair	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
7122D2: Colp-----	Fair	Fair	Good	Good	Good	Poor	Poor	Good	Good	Poor.
7131A: Alvin-----	Good	Fair	Good	Good	Good	Poor	Poor	Good	Good	Poor.
7131B: Alvin-----	Good	Fair	Good	Good	Good	Poor	Poor	Good	Good	Poor.
7131C: Alvin-----	Good	Fair	Good	Good	Good	Poor	Poor	Good	Good	Poor.

Soil Survey of Pulaski County, Illinois

Table 14.--Wildlife Habitat--Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
7131C2: Alvin-----	Good	Fair	Good	Good	Good	Poor	Poor	Good	Good	Poor.
7131D2: Alvin-----	Fair	Fair	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
7338A: Hurst-----	Fair	Good	Good	Good	Fair	Fair	Fair	Good	Good	Fair.
7338B: Hurst-----	Fair	Good	Good	Good	Fair	Poor	Very poor.	Good	Good	Very poor.
7401A: Okaw-----	Fair	Fair	Fair	Fair	Poor	Good	Good	Fair	Fair	Good.
7460A: Ginat-----	Fair	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good.
7462A: Sciotoville--	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
7462B: Sciotoville--	Fair	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
7462C2: Sciotoville--	Fair	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
7462C3: Sciotoville--	Fair	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
7462D2: Sciotoville--	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
7462D3: Sciotoville--	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.
7463A: Wheeling-----	Good	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
7463B: Wheeling-----	Fair	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
7463C2: Wheeling-----	Fair	Good	Good	Good	Good	Poor	Very poor.	Good	Good	Very poor.
7463D3: Wheeling-----	Fair	Good	Good	Good	Good	Very poor.	Very poor.	Good	Good	Very poor.

Soil Survey of Pulaski County, Illinois

Table 14.--Wildlife Habitat--Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
7711A: Hatfield-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair.
7711B: Hatfield-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair.
8070A: Beaucoup-----	Good	Good	Good	Fair	Fair	Good	Good	Good	Fair	Good.
8071A: Darwin-----	Poor	Poor	Fair	Poor	Poor	Good	Good	Poor	Poor	Good.
8072A: Sharon-----	Good	Good	Good	Good	Good	Poor	Very	Good	Good	Very
8085A: Jacob-----	Very poor.	Poor	Poor	Fair	Very poor.	Fair	Good	Poor	Fair	Good.
8108A: Bonnie-----	Poor	Fair	Fair	Fair	Poor	Good	Good	Fair	Fair	Good.
8109A: Raccoon-----	Fair	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
8162A: Gorham-----	Good	Fair	Fair	Fair	Fair	Good	Fair	Fair	Fair	Fair.
8178A: Ruark-----	Fair	Fair	Fair	Fair	Poor	Good	Good	Fair	Fair	Good.
8180A: Dupo-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair.
8184A: Roby-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair.
8184B: Roby-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair.
8284A: Tice-----	Poor	Fair	Fair	Good	Good	Fair	Fair	Fair	Good	Fair.
8288A: Petrolia-----	Fair	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
8331A: Haymond-----	Good	Good	Fair	Good	Good	Poor	Poor	Good	Good	Poor.
8333A: Wakeland-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair.
8334A: Birds-----	Good	Fair	Good	Good	Fair	Good	Good	Good	Good	Good.
8382A: Belknap-----	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair.
8420A: Piopolis-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.

Soil Survey of Pulaski County, Illinois

Table 14.--Wildlife Habitat--Continued

Map symbol and soil name	Potential for habitat elements							Potential as habitat for--		
	Grain and seed crops	Grasses and legumes	Wild herba- ceous plants	Hardwood trees	Conif- erous plants	Wetland plants	Shallow water areas	Openland wildlife	Woodland wildlife	Wetland wildlife
8422A: Cape-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
8422A+: Cape-----	Poor	Fair	Fair	Fair	Fair	Good	Good	Fair	Fair	Good.
8426A: Karnak-----	Very poor.	Poor	Poor	Fair	Very poor.	Good	Good	Poor	Fair	Good.
8426A+: Karnak-----	Very poor.	Poor	Poor	Fair	Very poor.	Good	Good	Poor	Fair	Good.
8597A: Armiesburg---	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor.
MW. Miscellaneous water										
W. Water										

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
79C: Menfro-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Shrink-swell Slope	0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50
79C2: Menfro-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Shrink-swell Slope	0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50
79C3: Menfro-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Shrink-swell Slope	0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50
79D: Menfro-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope Shrink-swell	0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
79D2: Menfro-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope Shrink-swell	0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
79D3: Menfro-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope Shrink-swell	0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
79E: Menfro-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
79E2: Menfro-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
79E3: Menfro-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
79F: Menfro-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164A: Stoy-----	Somewhat limited Shrink-swell Depth to saturated zone	0.50 0.39	Very limited Depth to saturated zone	1.00	Somewhat limited Shrink-swell Depth to saturated zone	0.50 0.39
164B: Stoy-----	Somewhat limited Shrink-swell Depth to saturated zone	0.50 0.39	Very limited Depth to saturated zone	1.00	Somewhat limited Shrink-swell Depth to saturated zone	0.50 0.39
165A: Weir-----	Very limited Depth to saturated zone Shrink-swell Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Shrink-swell Ponding	1.00 1.00 1.00
175B: Lamont-----	Not limited		Not limited		Not limited	
214B: Hosmer-----	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone Shrink-swell	0.99 0.50	Somewhat limited Shrink-swell	0.50
214C: Hosmer-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Depth to saturated zone Shrink-swell Slope	0.99 0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50
214C2: Hosmer-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Depth to saturated zone Shrink-swell Slope	0.99 0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50
214C3: Hosmer-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Depth to saturated zone Shrink-swell Slope	0.99 0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50
214D2: Hosmer-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Depth to saturated zone Slope Shrink-swell	0.99 0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
214D3: Hosmer-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Depth to saturated zone Slope Shrink-swell	0.99 0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
216D2: Stookey-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
216E: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216E2: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216E3: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216F: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216G: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
308B: Alford-----	Somewhat limited Shrink-swell	0.50	Not limited		Somewhat limited Shrink-swell	0.50
308C: Alford-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Slope	0.01	Very limited Slope Shrink-swell	1.00 0.50
308C2: Alford-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Slope	0.01	Very limited Slope Shrink-swell	1.00 0.50
308C3: Alford-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Slope	0.01	Very limited Slope Shrink-swell	1.00 0.50
308D: Alford-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope	0.96	Very limited Slope Shrink-swell	1.00 0.50
308D2: Alford-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope	0.96	Very limited Slope Shrink-swell	1.00 0.50
308D3: Alford-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope	0.96	Very limited Slope Shrink-swell	1.00 0.50
308E: Alford-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope	1.00	Very limited Slope Shrink-swell	1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308E2: Alford-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope	1.00	Very limited Slope Shrink-swell	1.00 0.50
308E3: Alford-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope	1.00	Very limited Slope Shrink-swell	1.00 0.50
308F: Alford-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope	1.00	Very limited Slope Shrink-swell	1.00 0.50
453C: Muren-----	Somewhat limited Depth to saturated zone Shrink-swell Slope	0.95 0.50 0.01	Very limited Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.01	Very limited Slope Depth to saturated zone Shrink-swell	1.00 0.95 0.50
453C3: Muren-----	Somewhat limited Depth to saturated zone Shrink-swell Slope	0.95 0.50 0.01	Very limited Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.01	Very limited Slope Depth to saturated zone Shrink-swell	1.00 0.95 0.50
453D2: Muren-----	Somewhat limited Slope Depth to saturated zone Shrink-swell	0.96 0.95 0.50	Very limited Depth to saturated zone Slope Shrink-swell	1.00 0.96 0.50	Very limited Slope Depth to saturated zone Shrink-swell	1.00 0.95 0.50
453D3: Muren-----	Somewhat limited Slope Depth to saturated zone Shrink-swell	0.96 0.95 0.50	Very limited Depth to saturated zone Slope Shrink-swell	1.00 0.96 0.50	Very limited Slope Depth to saturated zone Shrink-swell	1.00 0.95 0.50
477B: Winfield-----	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone Shrink-swell	0.99 0.50	Somewhat limited Shrink-swell	0.50
477C2: Winfield-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Depth to saturated zone Shrink-swell Slope	0.99 0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50
477C3: Winfield-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Depth to saturated zone Shrink-swell Slope	0.99 0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
477D2: Winfield-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Depth to saturated zone Slope Shrink-swell	0.99 0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
477D3: Winfield-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Depth to saturated zone Slope Shrink-swell	0.99 0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
694D2: Menfro-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope Shrink-swell	0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
Baxter-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope Shrink-swell	0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
694F: Menfro-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
Baxter-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
717F: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Clarksville-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
717G: Clarksville-----	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
801B: Orthents-----	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50
802D: Orthents-----	Somewhat limited Shrink-swell Slope	0.50 0.37	Somewhat limited Shrink-swell Slope	0.50 0.37	Very limited Slope Shrink-swell	1.00 0.50
864: Pits, quarries-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
Petrolia-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50
1845A: Darwin-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
Jacob-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
1846A: Karnak-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
Cape-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
3070A: Beaucoup-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50
3070L: Beaucoup-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3071A: Darwin-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
3072A: Sharon-----	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.61	Very limited Flooding	1.00
3108A: Bonnie-----	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3162L: Gorham-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50
3180A: Dupo-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
3284A: Tice-----	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50
3284L: Tice-----	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50
3288A: Petrolia-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3288L: Petrolia-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50
3331A: Haymond-----	Very limited Flooding	 1.00	Very limited Flooding	 1.00	Very limited Flooding	 1.00
3331L: Haymond-----	Very limited Flooding	 1.00	Very limited Flooding	 1.00	Very limited Flooding	 1.00
3333A: Wakeland-----	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00
3333L: Wakeland-----	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00
3334A: Birds-----	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00
3334L: Birds-----	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00
3382A: Belknap-----	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00
3420A: Piopolis-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3422A: Cape-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
3422A+: Cape-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
3426A: Karnak-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
3426A+: Karnak-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
3426L: Karnak-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
3449L: Armiesburg-----	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Shrink-swell	1.00 0.50
Sarpy-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
3456BL: Ware-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
3597L: Armiesburg-----	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Shrink-swell	1.00 0.50	Very limited Flooding Shrink-swell	1.00 0.50
5079B2: Menfro-----	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5079C3: Menfro-----	Somewhat limited Shrink-swell Slope	0.50 0.01	Somewhat limited Shrink-swell Slope	0.50 0.01	Very limited Slope Shrink-swell	1.00 0.50
5079D3: Menfro-----	Somewhat limited Slope Shrink-swell	0.96 0.50	Somewhat limited Slope Shrink-swell	0.96 0.50	Very limited Slope Shrink-swell	1.00 0.50
7084A: Okaw-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
7122B: Colp-----	Very limited Flooding Shrink-swell	1.00 1.00	Very limited Flooding Shrink-swell Depth to saturated zone	1.00 1.00 0.95	Very limited Flooding Shrink-swell	1.00 1.00
7122C2: Colp-----	Very limited Flooding Shrink-swell	1.00 1.00	Very limited Flooding Shrink-swell Depth to saturated zone	1.00 1.00 0.95	Very limited Flooding Shrink-swell Slope	1.00 1.00 0.88
7122D2: Colp-----	Very limited Flooding Shrink-swell Slope	1.00 1.00 0.96	Very limited Flooding Shrink-swell Slope Depth to saturated zone	1.00 1.00 0.96 0.95	Very limited Slope Flooding Shrink-swell	1.00 1.00 1.00
7131A: Alvin-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
7131B: Alvin-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
7131C: Alvin-----	Very limited Flooding Slope	1.00 0.01	Very limited Flooding Slope	1.00 0.01	Very limited Flooding Slope	1.00 1.00
7131C2: Alvin-----	Very limited Flooding Slope	1.00 0.01	Very limited Flooding Slope	1.00 0.01	Very limited Flooding Slope	1.00 1.00
7131D2: Alvin-----	Very limited Flooding Slope	1.00 0.96	Very limited Flooding Slope	1.00 0.96	Very limited Slope Flooding	1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7338A: Hurst-----	Very limited Flooding Shrink-swell Depth to saturated zone	1.00 1.00 0.44	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00	Very limited Flooding Shrink-swell Depth to saturated zone	1.00 1.00 0.44
7338B: Hurst-----	Very limited Flooding Shrink-swell Depth to saturated zone	1.00 1.00 0.44	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00	Very limited Flooding Shrink-swell Depth to saturated zone	1.00 1.00 0.44
7401A: Okaw-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
7460A: Ginat-----	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
7462A: Sciotoville-----	Very limited Flooding Depth to saturated zone	1.00 0.07	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.07
7462B: Sciotoville-----	Very limited Flooding Depth to saturated zone	1.00 0.07	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.07
7462C2: Sciotoville-----	Very limited Flooding Depth to saturated zone Slope	1.00 0.07 0.01	Very limited Flooding Depth to saturated zone Slope	1.00 1.00 0.01	Very limited Flooding Slope Depth to saturated zone	1.00 1.00 0.07
7462C3: Sciotoville-----	Very limited Flooding Depth to saturated zone Slope	1.00 0.07 0.01	Very limited Flooding Depth to saturated zone Slope	1.00 1.00 0.01	Very limited Flooding Slope Depth to saturated zone	1.00 1.00 0.07
7462D2: Sciotoville-----	Very limited Flooding Slope Depth to saturated zone	1.00 0.96 0.07	Very limited Flooding Depth to saturated zone Slope	1.00 1.00 0.96	Very limited Slope Flooding Depth to saturated zone	1.00 1.00 0.07

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7462D3: Sciotoville-----	Very limited Flooding Slope Depth to saturated zone	1.00 0.96 0.07	Very limited Flooding Depth to saturated zone Slope	1.00 1.00 0.96	Very limited Slope Flooding Depth to saturated zone	1.00 1.00 0.07
7463A: Wheeling-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
7463B: Wheeling-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
7463C2: Wheeling-----	Very limited Flooding Slope	1.00 0.01	Very limited Flooding Slope	1.00 0.01	Very limited Flooding Slope	1.00 1.00
7463D3: Wheeling-----	Very limited Flooding Slope	1.00 0.96	Very limited Flooding Slope	1.00 0.96	Very limited Slope Flooding	1.00 1.00
7711A: Hatfield-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00
7711B: Hatfield-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00
8070A: Beaucoup-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50
8071A: Darwin-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00
8072A: Sharon-----	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 0.61	Very limited Flooding	1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8085A: Jacob-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 1.00
8108A: Bonnie-----	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00
8109A: Raccoon-----	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00
8162A: Gorham-----	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Ponding Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00 0.50
8178A: Ruark-----	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	 1.00 1.00 1.00
8180A: Dupo-----	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone Shrink-swell	 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 1.00
8184A: Roby-----	Very limited Flooding Depth to saturated zone	 1.00 0.39	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 0.39
8184B: Roby-----	Very limited Flooding Depth to saturated zone	 1.00 0.39	Very limited Flooding Depth to saturated zone	 1.00 1.00	Very limited Flooding Depth to saturated zone	 1.00 0.39

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8284A: Tice-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
8288A: Petrolia-----	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
8331A: Haymond-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
8333A: Wakeland-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
8334A: Birds-----	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
8382A: Belknap-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
8420A: Piopolis-----	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
8422A: Cape-----	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
8422A+: Cape-----	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part I—Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8426A: Karnak-----	Very limited		Very limited		Very limited	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
8426A+: Karnak-----	Very limited		Very limited		Very limited	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
8597A: Armiesburg-----	Very limited		Very limited		Very limited	
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Very limited Frost action Low strength Shrink-swell	 1.00 1.00 0.50	Somewhat limited Cutbanks cave	 0.10	Not limited	
79C: Menfro-----	Very limited Frost action Low strength Shrink-swell Slope	 1.00 1.00 0.50 0.01	Somewhat limited Cutbanks cave Slope	 0.10 0.01	Somewhat limited Slope	 0.01
79C2: Menfro-----	Very limited Frost action Low strength Shrink-swell Slope	 1.00 1.00 0.50 0.01	Somewhat limited Cutbanks cave Slope	 0.10 0.01	Somewhat limited Slope	 0.01
79C3: Menfro-----	Very limited Frost action Low strength Shrink-swell Slope	 1.00 1.00 0.50 0.01	Somewhat limited Cutbanks cave Slope	 0.10 0.01	Somewhat limited Slope	 0.01
79D: Menfro-----	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 0.96 0.50	Somewhat limited Slope Cutbanks cave	 0.96 0.10	Somewhat limited Slope	 0.96
79D2: Menfro-----	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 0.96 0.50	Somewhat limited Slope Cutbanks cave	 0.96 0.10	Somewhat limited Slope	 0.96
79D3: Menfro-----	Very limited Frost action Low strength Slope Shrink-swell	 1.00 1.00 0.96 0.50	Somewhat limited Slope Cutbanks cave	 0.96 0.10	Somewhat limited Slope	 0.96
79E: Menfro-----	Very limited Slope Frost action Low strength Shrink-swell	 1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	 1.00 0.10	Very limited Slope	 1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79E2: Menfro-----	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
79E3: Menfro-----	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
79F: Menfro-----	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
164A: Stoy-----	Very limited Frost action Low strength Shrink-swell Depth to saturated zone	1.00 1.00 0.50 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
164B: Stoy-----	Very limited Frost action Low strength Shrink-swell Depth to saturated zone	1.00 1.00 0.50 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
165A: Weir-----	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Ponding	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
175B: Lamont-----	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
214B: Hosmer-----	Very limited Frost action Low strength Shrink-swell	1.00 0.78 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Somewhat limited Depth to cemented pan	0.64
214C: Hosmer-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 0.78 0.50 0.01	Somewhat limited Depth to saturated zone Cutbanks cave Slope	0.99 0.10 0.01	Somewhat limited Depth to cemented pan Slope	0.64 0.01

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
214C2: Hosmer-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 0.78 0.50 0.01	Somewhat limited Depth to saturated zone Cutbanks cave Slope	0.99 0.10 0.01	Somewhat limited Depth to cemented pan Slope	0.64 0.01
214C3: Hosmer-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 0.78 0.50 0.01	Somewhat limited Depth to saturated zone Cutbanks cave Slope	0.99 0.10 0.01	Somewhat limited Depth to cemented pan Slope	0.64 0.01
214D2: Hosmer-----	Very limited Frost action Slope Low strength Shrink-swell	1.00 0.96 0.78 0.50	Somewhat limited Depth to saturated zone Slope Cutbanks cave	0.99 0.96 0.10	Somewhat limited Slope Depth to cemented pan	0.96 0.86
214D3: Hosmer-----	Very limited Frost action Slope Low strength Shrink-swell	1.00 0.96 0.78 0.50	Somewhat limited Depth to saturated zone Slope Cutbanks cave	0.99 0.96 0.10	Somewhat limited Slope Depth to cemented pan	0.96 0.86
216D2: Stookey-----	Very limited Frost action Low strength Slope	1.00 1.00 0.96	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
216E: Stookey-----	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
216E2: Stookey-----	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
216E3: Stookey-----	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
216F: Stookey-----	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
216G: Stookey-----	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
308B: Alford-----	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
308C: Alford-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 1.00 0.50 0.01	Somewhat limited Cutbanks cave Slope	0.10 0.01	Somewhat limited Slope	0.01
308C2: Alford-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 1.00 0.50 0.01	Somewhat limited Cutbanks cave Slope	0.10 0.01	Somewhat limited Slope	0.01
308C3: Alford-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 1.00 0.50 0.01	Somewhat limited Cutbanks cave Slope	0.10 0.01	Somewhat limited Slope	0.01
308D: Alford-----	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.96 0.50	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
308D2: Alford-----	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.96 0.50	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
308D3: Alford-----	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.96 0.50	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
308E: Alford-----	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308E2: Alford-----	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
308E3: Alford-----	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
308F: Alford-----	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
453C: Muren-----	Very limited Frost action Depth to saturated zone Shrink-swell Slope	1.00 0.68 0.50 0.01	Very limited Depth to saturated zone Cutbanks cave Slope	1.00 0.10 0.01	Somewhat limited Depth to saturated zone Slope	0.68 0.01
453C3: Muren-----	Very limited Frost action Depth to saturated zone Shrink-swell Slope	1.00 0.68 0.50 0.01	Very limited Depth to saturated zone Cutbanks cave Slope	1.00 0.10 0.01	Somewhat limited Depth to saturated zone Slope	0.68 0.01
453D2: Muren-----	Very limited Frost action Slope Depth to saturated zone Shrink-swell	1.00 0.96 0.68 0.50	Very limited Depth to saturated zone Slope Cutbanks cave	1.00 0.96 0.10	Somewhat limited Slope Depth to saturated zone	0.96 0.68
453D3: Muren-----	Very limited Frost action Slope Depth to saturated zone Shrink-swell	1.00 0.96 0.68 0.50	Very limited Depth to saturated zone Slope Cutbanks cave	1.00 0.96 0.10	Somewhat limited Slope Depth to saturated zone	0.96 0.68
477B: Winfield-----	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Not limited	

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
477C2: Winfield-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 1.00 0.50 0.01	Somewhat limited Depth to saturated zone Cutbanks cave Slope	0.99 0.10 0.01	Somewhat limited Slope	0.01
477C3: Winfield-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 1.00 0.50 0.01	Somewhat limited Depth to saturated zone Cutbanks cave Slope	0.99 0.10 0.01	Somewhat limited Slope	0.01
477D2: Winfield-----	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.96 0.50	Somewhat limited Depth to saturated zone Slope Cutbanks cave	0.99 0.96 0.10	Somewhat limited Slope	0.96
477D3: Winfield-----	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.96 0.50	Somewhat limited Depth to saturated zone Slope Cutbanks cave	0.99 0.96 0.10	Somewhat limited Slope	0.96
694D2: Menfro-----	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.96 0.50	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
Baxter-----	Very limited Low strength Slope Shrink-swell	1.00 0.96 0.50	Very limited Cutbanks cave Slope Too clayey	1.00 0.96 0.92	Somewhat limited Slope Gravel content Large stones content	0.96 0.11 0.01
694F: Menfro-----	Very limited Slope Frost action Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Baxter-----	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 1.00 0.92	Very limited Slope Gravel content Large stones content	1.00 0.11 0.01
717F: Stookey-----	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
717F: Clarksville-----	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 1.00 0.01	Very limited Slope Large stones content	1.00 0.20
717G: Clarksville-----	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 1.00 0.01	Very limited Slope Large stones content	1.00 0.20
Stookey-----	Very limited Slope Frost action Low strength	1.00 1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
801B: Orthents-----	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
802D: Orthents-----	Very limited Low strength Shrink-swell Frost action Slope	1.00 0.50 0.50 0.37	Somewhat limited Dense layer Slope Cutbanks cave	0.50 0.37 0.10	Somewhat limited Slope	0.37
864: Pits, quarries-----	Not rated		Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
Petrolia-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
1845A: Darwin-----	Very limited Shrink-swell Ponding Depth to saturated zone Flooding Low strength	1.00 1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Too clayey Cutbanks cave	1.00 1.00 0.80 0.32 0.10	Very limited Ponding Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1845A: Jacob-----	Very limited		Very limited		Very limited	
	Shrink-swell	1.00	Ponding	1.00	Too clayey	1.00
	Ponding	1.00	Depth to	1.00	Ponding	1.00
	Depth to	1.00	saturated zone		Flooding	1.00
	saturated zone		Too clayey	1.00	Depth to	1.00
	Flooding	1.00	Flooding	0.80	saturated zone	
	Low strength	1.00	Cutbanks cave	0.10		
1846A: Karnak-----	Very limited		Very limited		Very limited	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Frost action	1.00	Too clayey	0.95	saturated zone	
	Flooding	1.00	Flooding	0.80	Too clayey	1.00
	Low strength	1.00	Cutbanks cave	0.10		
Cape-----	Very limited		Very limited		Very limited	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Frost action	1.00	Flooding	0.80	saturated zone	
	Flooding	1.00	Cutbanks cave	0.10		
	Low strength	1.00	Too clayey	0.02		
3070A: Beaucoup-----	Very limited		Very limited		Very limited	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Frost action	1.00	Flooding	0.80	saturated zone	
	Flooding	1.00	Cutbanks cave	0.10		
	Low strength	1.00				
3070L: Beaucoup-----	Very limited		Very limited		Very limited	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Frost action	1.00	Flooding	0.80	saturated zone	
	Flooding	1.00	Cutbanks cave	0.10		
	Low strength	1.00				
3071A: Darwin-----	Very limited		Very limited		Very limited	
	Shrink-swell	1.00	Ponding	1.00	Ponding	1.00
	Ponding	1.00	Depth to	1.00	Flooding	1.00
	Depth to	1.00	saturated zone		Depth to	1.00
	saturated zone		Flooding	0.80	saturated zone	
	Flooding	1.00	Too clayey	0.32	Too clayey	1.00
	Low strength	1.00	Cutbanks cave	0.10		
3072A: Sharon-----	Very limited		Somewhat limited		Very limited	
	Frost action	1.00	Flooding	0.80	Flooding	1.00
	Flooding	1.00	Depth to	0.61		
			saturated zone			
			Cutbanks cave	0.10		

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3108A: Bonnie-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3162L: Gorham-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 1.00 0.80	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3180A: Dupo-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.95	Very limited Depth to saturated zone Flooding Too clayey Cutbanks cave	1.00 0.80 0.24 0.10	Very limited Flooding Depth to saturated zone	1.00 0.95
3284A: Tice-----	Very limited Frost action Flooding Low strength Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.94 0.50	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 0.94
3284L: Tice-----	Very limited Frost action Flooding Low strength Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.94 0.50	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 0.94
3288A: Petrolia-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3288L: Petrolia-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3331A: Haymond-----	Very limited Frost action Flooding	1.00 1.00	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding	1.00
3331L: Haymond-----	Very limited Frost action Flooding	1.00 1.00	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding	1.00
3333A: Wakeland-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 0.94
3333L: Wakeland-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 0.94
3334A: Birds-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3334L: Birds-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3382A: Belknap-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 0.94
3420A: Piopolis-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3422A: Cape-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave Too clayey	1.00 1.00 0.80 0.10 0.02	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3422A+: Cape-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave Too clayey	1.00 1.00 0.80 0.10 0.02	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3426A: Karnak-----	Very limited Ponding Depth to saturated zone Frost action Flooding Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding Cutbanks cave	1.00 1.00 0.95 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00 1.00
3426A+: Karnak-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding Cutbanks cave	1.00 1.00 0.95 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3426L: Karnak-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding Cutbanks cave	1.00 1.00 0.95 0.80 0.10	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3449L: Armiesburg-----	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding	1.00
Sarpy-----	Very limited Flooding	1.00	Very limited Cutbanks cave Flooding	1.00 0.80	Very limited Flooding Droughty	1.00 0.69
3456BL: Ware-----	Very limited Flooding Frost action	1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding	1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3597L: Armiesburg-----	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding	1.00
5079B2: Menfro-----	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
5079C3: Menfro-----	Very limited Frost action Low strength Shrink-swell Slope	1.00 1.00 0.50 0.01	Somewhat limited Cutbanks cave Slope	0.10 0.01	Somewhat limited Slope	0.01
5079D3: Menfro-----	Very limited Frost action Low strength Slope Shrink-swell	1.00 1.00 0.96 0.50	Somewhat limited Slope Cutbanks cave	0.96 0.10	Somewhat limited Slope	0.96
7084A: Okaw-----	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.32 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
7122B: Colp-----	Very limited Frost action Low strength Shrink-swell Flooding	1.00 1.00 1.00 0.40	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.95 0.10 0.01	Not limited	
7122C2: Colp-----	Very limited Frost action Low strength Shrink-swell Flooding	1.00 1.00 1.00 0.40	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.95 0.10 0.01	Not limited	
7122D2: Colp-----	Very limited Frost action Low strength Shrink-swell Slope Flooding	1.00 1.00 1.00 0.96 0.40	Somewhat limited Slope Depth to saturated zone Cutbanks cave Too clayey	0.96 0.95 0.10 0.02	Somewhat limited Slope	0.96

Soil Survey of Pulaski County, Illinois

Table 15.--Building Site Development, Part II--Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7131A: Alvin-----	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
7131B: Alvin-----	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
7131C: Alvin-----	Somewhat limited Frost action Flooding Slope	0.50 0.40 0.01	Very limited Cutbanks cave Slope	1.00 0.01	Somewhat limited Slope	0.01
7131C2: Alvin-----	Somewhat limited Frost action Flooding Slope	0.50 0.40 0.01	Very limited Cutbanks cave Slope	1.00 0.01	Somewhat limited Slope	0.01
7131D2: Alvin-----	Somewhat limited Slope Frost action Flooding	0.96 0.50 0.40	Very limited Cutbanks cave Slope	1.00 0.96	Somewhat limited Slope	0.96
7338A: Hurst-----	Very limited Low strength Shrink-swell Frost action Flooding Depth to saturated zone	1.00 1.00 0.50 0.40 0.22	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.22
7338B: Hurst-----	Very limited Low strength Shrink-swell Frost action Flooding Depth to saturated zone	1.00 1.00 0.50 0.40 0.22	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.22
7401A: Okaw-----	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.32 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7460A: Ginat-----	Very limited Ponding Depth to saturated zone Frost action Low strength Flooding	1.00 1.00 1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Cutbanks cave	1.00 1.00 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
7462A: Sciotoville-----	Very limited Frost action Low strength Flooding Depth to saturated zone	1.00 0.78 0.40 0.03	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.03
7462B: Sciotoville-----	Very limited Frost action Low strength Flooding Depth to saturated zone	1.00 0.78 0.40 0.03	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.03
7462C2: Sciotoville-----	Very limited Frost action Low strength Flooding Depth to saturated zone Slope	1.00 0.78 0.40 0.03 0.01	Very limited Depth to saturated zone Cutbanks cave Slope	1.00 0.10 0.01	Somewhat limited Depth to saturated zone Slope	0.03 0.01
7462C3: Sciotoville-----	Very limited Frost action Low strength Flooding Depth to saturated zone Slope	1.00 0.78 0.40 0.03 0.01	Very limited Depth to saturated zone Cutbanks cave Slope	1.00 0.10 0.01	Somewhat limited Depth to saturated zone Slope	0.03 0.01
7462D2: Sciotoville-----	Very limited Frost action Slope Low strength Flooding Depth to saturated zone	1.00 0.96 0.78 0.40 0.03	Very limited Depth to saturated zone Slope Cutbanks cave	1.00 0.96 0.10	Somewhat limited Slope Depth to saturated zone	0.96 0.03
7462D3: Sciotoville-----	Very limited Frost action Slope Low strength Flooding Depth to saturated zone	1.00 0.96 0.78 0.40 0.03	Very limited Depth to saturated zone Slope Cutbanks cave	1.00 0.96 0.10	Somewhat limited Slope Depth to saturated zone	0.96 0.03

Soil Survey of Pulaski County, Illinois

Table 15.--Building Site Development, Part II--Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7463A: Wheeling-----	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
7463B: Wheeling-----	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
7463C2: Wheeling-----	Somewhat limited Frost action Flooding Slope	0.50 0.40 0.01	Very limited Cutbanks cave Slope	1.00 0.01	Somewhat limited Slope	0.01
7463D3: Wheeling-----	Somewhat limited Slope Frost action Flooding	0.96 0.50 0.40	Very limited Cutbanks cave Slope	1.00 0.96	Somewhat limited Slope	0.96
7711A: Hatfield-----	Very limited Depth to saturated zone Frost action Low strength Flooding	1.00 1.00 0.78 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Very limited Depth to saturated zone	1.00
7711B: Hatfield-----	Very limited Depth to saturated zone Frost action Low strength Flooding	1.00 1.00 0.78 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Very limited Depth to saturated zone	1.00
8070A: Beaucoup-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.60 0.10	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8071A: Darwin-----	Very limited Shrink-swell Ponding Depth to saturated zone Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Too clayey Cutbanks cave	1.00 1.00 0.60 0.32 0.10	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 1.00 0.60
8072A: Sharon-----	Very limited Frost action Flooding	1.00 1.00	Somewhat limited Depth to saturated zone Flooding Cutbanks cave	0.61 0.60 0.10	Somewhat limited Flooding	0.60

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8085A: Jacob-----	Very limited Shrink-swell Ponding Depth to saturated zone Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding Cutbanks cave	1.00 1.00 1.00 1.00 0.60 0.10	Very limited Too clayey Ponding Depth to saturated zone Flooding	1.00 1.00 1.00 0.60
8108A: Bonnie-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.60 0.10	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8109A: Raccoon-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.60 0.10	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8162A: Gorham-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 1.00 0.60	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8178A: Ruark-----	Very limited Ponding Depth to saturated zone Frost action Flooding	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.60 0.10	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8180A: Dupo-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.95	Very limited Depth to saturated zone Flooding Too clayey Cutbanks cave	1.00 0.60 0.24 0.10	Somewhat limited Depth to saturated zone Flooding	0.95 0.60
8184A: Roby-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.19	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60	Somewhat limited Flooding Depth to saturated zone	0.60 0.19

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8184B: Roby-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.19	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60	Somewhat limited Flooding Depth to saturated zone	0.60 0.19
8284A: Tice-----	Very limited Frost action Flooding Low strength Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.94 0.50	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
8288A: Petrolia-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.60 0.10	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8331A: Haymond-----	Very limited Frost action Flooding	1.00 1.00	Somewhat limited Flooding Cutbanks cave	0.60 0.10	Somewhat limited Flooding	0.60
8333A: Wakeland-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
8334A: Birds-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.60 0.10	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8382A: Belknap-----	Very limited Frost action Flooding Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Depth to saturated zone Flooding	0.94 0.60
8420A: Piopolis-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave	1.00 1.00 0.60 0.10	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60

Soil Survey of Pulaski County, Illinois

Table 15.—Building Site Development, Part II—Continued

Map symbol and soil name	Local roads and streets		Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8422A: Cape-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave Too clayey	1.00 1.00 0.60 0.10 0.02	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8422A+: Cape-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Cutbanks cave Too clayey	1.00 1.00 0.60 0.10 0.02	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8426A: Karnak-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding Cutbanks cave	1.00 1.00 0.95 0.60 0.10	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 1.00 0.60
8426A+: Karnak-----	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding Cutbanks cave	1.00 1.00 0.95 0.60 0.10	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8597A: Armiesburg-----	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.60 0.10	Somewhat limited Flooding	0.60
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Somewhat limited Slow water movement	0.46	Somewhat limited Seepage Slope	0.53 0.32
79C: Menfro-----	Somewhat limited Slow water movement Slope	0.46 0.01	Very limited Slope Seepage	1.00 0.53
79C2: Menfro-----	Somewhat limited Slow water movement Slope	0.46 0.01	Very limited Slope Seepage	1.00 0.53
79C3: Menfro-----	Somewhat limited Slow water movement Slope	0.46 0.01	Very limited Slope Seepage	1.00 0.53
79D: Menfro-----	Somewhat limited Slope Slow water movement	0.96 0.46	Very limited Slope Seepage	1.00 0.53
79D2: Menfro-----	Somewhat limited Slope Slow water movement	0.96 0.46	Very limited Slope Seepage	1.00 0.53
79D3: Menfro-----	Somewhat limited Slope Slow water movement	0.96 0.46	Very limited Slope Seepage	1.00 0.53
79E: Menfro-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
79E2: Menfro-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
79E3: Menfro-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
79F: Menfro-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
164A: Stoy-----	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone Seepage	0.75 0.53
164B: Stoy-----	Very limited Slow water movement Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone Seepage Slope	0.75 0.53 0.32
165A: Weir-----	Very limited Slow water movement Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00
175B: Lamont-----	Very limited Seepage, bottom layer	1.00	Very limited Seepage Slope	1.00 0.32
214B: Hosmer-----	Very limited Depth to cemented pan Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Depth to cemented pan Seepage Slope Depth to saturated zone	1.00 0.53 0.32 0.17
214C: Hosmer-----	Very limited Depth to cemented pan Depth to saturated zone Slow water movement Slope	1.00 1.00 0.46 0.01	Very limited Depth to cemented pan Slope Seepage Depth to saturated zone	1.00 1.00 0.53 0.17

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
214C2: Hosmer-----	Very limited Depth to cemented pan Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Depth to cemented pan Slope Seepage Depth to saturated zone	1.00 1.00 0.53 0.17
214C3: Hosmer-----	Very limited Depth to cemented pan Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Depth to cemented pan Slope Seepage Depth to saturated zone	1.00 1.00 0.53 0.17
214D2: Hosmer-----	Very limited Depth to cemented pan Depth to saturated zone Slope Slow water movement	1.00 1.00 0.96 0.46	Very limited Depth to cemented pan Slope Seepage Depth to saturated zone	1.00 1.00 0.53 0.17
214D3: Hosmer-----	Very limited Depth to cemented pan Depth to saturated zone Slope Slow water movement	1.00 1.00 0.96 0.46	Very limited Depth to cemented pan Slope Seepage Depth to saturated zone	1.00 1.00 0.53 0.17
216D2: Stookey-----	Somewhat limited Slope Slow water movement	0.96 0.46	Very limited Slope Seepage	1.00 0.53
216E: Stookey-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
216E2: Stookey-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
216E3: Stookey-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
216F: Stookey-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
216G: Stookey-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
308B: Alford-----	Somewhat limited Slow water movement	0.46	Somewhat limited Seepage Slope	0.53 0.32
308C: Alford-----	Somewhat limited Slow water movement Slope	0.46 0.01	Very limited Slope Seepage	1.00 0.53
308C2: Alford-----	Somewhat limited Slow water movement Slope	0.46 0.01	Very limited Slope Seepage	1.00 0.53
308C3: Alford-----	Somewhat limited Slow water movement Slope	0.46 0.01	Very limited Slope Seepage	1.00 0.53
308D: Alford-----	Somewhat limited Slope Slow water movement	0.96 0.46	Very limited Slope Seepage	1.00 0.53
308D2: Alford-----	Somewhat limited Slope Slow water movement	0.96 0.46	Very limited Slope Seepage	1.00 0.53
308D3: Alford-----	Somewhat limited Slope Slow water movement	0.96 0.46	Very limited Slope Seepage	1.00 0.53
308E: Alford-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
308E2: Alford-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
308E3: Alford-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
308F: Alford-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
453C: Muren-----	Very limited Depth to saturated zone Slow water movement Slope	1.00 0.46 0.01	Very limited Depth to saturated zone Slope Seepage	1.00 1.00 0.53
453C3: Muren-----	Very limited Depth to saturated zone Slow water movement Slope	1.00 0.46 0.01	Very limited Depth to saturated zone Slope Seepage	1.00 1.00 0.53
453D2: Muren-----	Very limited Depth to saturated zone Slope Slow water movement	1.00 0.96 0.46	Very limited Slope Depth to saturated zone Seepage	1.00 1.00 0.53
453D3: Muren-----	Very limited Depth to saturated zone Slope Slow water movement	1.00 0.96 0.46	Very limited Slope Depth to saturated zone Seepage	1.00 1.00 0.53
477B: Winfield-----	Very limited Depth to saturated zone Slow water movement	1.00 0.46	Very limited Depth to saturated zone Seepage Slope	1.00 0.53 0.32

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
477C2: Winfield-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
	Slow water movement	0.46	Slope	1.00
	Slope	0.01	Seepage	0.53
477C3: Winfield-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
	Slow water movement	0.46	Slope	1.00
	Slope	0.01	Seepage	0.53
477D2: Winfield-----	Very limited Depth to saturated zone	1.00	Very limited Slope	1.00
	Slope	0.96	Depth to saturated zone	1.00
	Slow water movement	0.46	Seepage	0.53
477D3: Winfield-----	Very limited Depth to saturated zone	1.00	Very limited Slope	1.00
	Slope	0.96	Depth to saturated zone	1.00
	Slow water movement	0.46	Seepage	0.53
694D2: Menfro-----	Somewhat limited Slope	0.96	Very limited Slope	1.00
	Slow water movement	0.46	Seepage	0.53
Baxter-----	Somewhat limited Slope	0.96	Very limited Slope	1.00
	Slow water movement	0.46	Seepage	0.53
694F: Menfro-----	Very limited Slope	1.00	Very limited Slope	1.00
	Slow water movement	0.46	Seepage	0.53
Baxter-----	Very limited Slope	1.00	Very limited Slope	1.00
	Slow water movement	0.46	Seepage	0.53
717F: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00
	Slow water movement	0.46	Seepage	0.53

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
717F: Clarksville-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 1.00
717G: Clarksville-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 1.00
Stookey-----	Very limited Slope Slow water movement	1.00 0.46	Very limited Slope Seepage	1.00 0.53
801B: Orthents-----	Somewhat limited Slow water movement	0.72	Somewhat limited Seepage Slope	0.28 0.08
802D: Orthents-----	Very limited Slow water movement Slope	1.00 0.37	Very limited Slope	1.00
864: Pits, quarries-----	Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated	
1843A: Bonnie-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
Petrolia-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
1845A: Darwin-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
1845A: Jacob-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
1846A: Karnak-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
Cape-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3070A: Beaucoup-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 0.46	Very limited Ponding Flooding Depth to saturated zone Seepage	1.00 1.00 1.00 0.53
3070L: Beaucoup-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 0.46	Very limited Ponding Flooding Depth to saturated zone Seepage	1.00 1.00 1.00 0.53
3071A: Darwin-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3072A: Sharon-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Flooding Depth to saturated zone Seepage	1.00 0.71 0.53

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
3108A: Bonnie-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3162L: Gorham-----	Very limited Flooding Ponding Depth to saturated zone Seepage, bottom layer Slow water movement	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Flooding Seepage Depth to saturated zone	1.00 1.00 1.00 1.00
3180A: Dupo-----	Very limited Flooding Slow water movement Depth to saturated zone	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.53
3284A: Tice-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.53
3284L: Tice-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.53
3288A: Petrolia-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3288L: Petrolia-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
3331A: Haymond-----	Very limited Flooding Slow water movement	1.00 0.46	Very limited Flooding Seepage	1.00 0.53
3331L: Haymond-----	Very limited Flooding Slow water movement	1.00 0.46	Very limited Flooding Seepage	1.00 0.53
3333A: Wakeland-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.53
3333L: Wakeland-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.53
3334A: Birds-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3334L: Birds-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3382A: Belknap-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.72	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.28
3420A: Piopolis-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
3422A: Cape-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3422A+: Cape-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Seepage	1.00 1.00 1.00 0.53
3426A: Karnak-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3426A+: Karnak-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3426L: Karnak-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
3449L: Armiesburg-----	Very limited Flooding Slow water movement	1.00 0.46	Very limited Flooding Seepage	1.00 0.53
Sarpy-----	Very limited Flooding Filtering capacity Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Seepage	1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
3456BL: Ware-----	Very limited Flooding Seepage, bottom layer Filtering capacity	1.00 1.00 1.00	Very limited Flooding Seepage Slope	1.00 1.00 0.32
3597L: Armiesburg-----	Very limited Flooding Slow water movement	1.00 0.46	Very limited Flooding Seepage	1.00 0.53
5079B2: Menfro-----	Somewhat limited Slow water movement	0.46	Somewhat limited Seepage Slope	0.53 0.32
5079C3: Menfro-----	Somewhat limited Slow water movement Slope	0.46 0.01	Very limited Slope Seepage	1.00 0.53
5079D3: Menfro-----	Somewhat limited Slope Slow water movement	0.96 0.46	Very limited Slope Seepage	1.00 0.53
7084A: Okaw-----	Very limited Slow water movement Ponding Depth to saturated zone Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.40
7122B: Colp-----	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Slope	1.00 0.40 0.32
7122C2: Colp-----	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Slope Flooding	1.00 1.00 0.40

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
7122D2: Colp-----	Very limited Slow water movement Depth to saturated zone Slope Flooding	1.00 1.00 0.96 0.40	Very limited Slope Depth to saturated zone Flooding	1.00 1.00 0.40
7131A: Alvin-----	Very limited Seepage, bottom layer Flooding	1.00 0.40	Very limited Seepage Flooding	1.00 0.40
7131B: Alvin-----	Very limited Seepage, bottom layer Flooding	1.00 0.40	Very limited Seepage Flooding Slope	1.00 0.40 0.32
7131C: Alvin-----	Very limited Seepage, bottom layer Flooding Slope	1.00 0.40 0.01	Very limited Seepage Slope Flooding	1.00 1.00 0.40
7131C2: Alvin-----	Very limited Seepage, bottom layer Flooding Slope	1.00 0.40 0.01	Very limited Seepage Slope Flooding	1.00 1.00 0.40
7131D2: Alvin-----	Very limited Seepage, bottom layer Slope Flooding	1.00 0.96 0.40	Very limited Slope Seepage Flooding	1.00 1.00 0.40
7338A: Hurst-----	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40
7338B: Hurst-----	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Flooding Slope	1.00 0.40 0.32

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
7401A: Okaw-----	Very limited Slow water movement Ponding Depth to saturated zone Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.40
7460A: Ginat-----	Very limited Slow water movement Ponding Depth to saturated zone Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Seepage Flooding	1.00 1.00 0.53 0.40
7462A: Sciotoville-----	Very limited Depth to saturated zone Seepage, bottom layer Slow water movement Flooding	1.00 1.00 1.00 0.40	Very limited Seepage Depth to saturated zone Flooding	1.00 0.44 0.40
7462B: Sciotoville-----	Very limited Depth to saturated zone Seepage, bottom layer Slow water movement Flooding	1.00 1.00 1.00 0.40	Very limited Seepage Depth to saturated zone Flooding Slope	1.00 0.44 0.40 0.32
7462C2: Sciotoville-----	Very limited Depth to saturated zone Seepage, bottom layer Slow water movement Flooding Slope	1.00 1.00 1.00 0.40 0.01	Very limited Seepage Slope Depth to saturated zone Flooding	1.00 1.00 0.44 0.40
7462C3: Sciotoville-----	Very limited Depth to saturated zone Seepage, bottom layer Slow water movement Flooding Slope	1.00 1.00 1.00 0.40 0.01	Very limited Seepage Slope Depth to saturated zone Flooding	1.00 1.00 0.44 0.40

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
7462D2: Sciotoville-----	Very limited		Very limited	
	Depth to saturated zone	1.00	Slope	1.00
	Seepage, bottom layer	1.00	Seepage	1.00
	Slow water movement	1.00	Depth to saturated zone	0.44
	Slope	0.96	Flooding	0.40
	Flooding	0.40		
7462D3: Sciotoville-----	Very limited		Very limited	
	Depth to saturated zone	1.00	Slope	1.00
	Seepage, bottom layer	1.00	Seepage	1.00
	Slow water movement	1.00	Depth to saturated zone	0.44
	Slope	0.96	Flooding	0.40
	Flooding	0.40		
7463A: Wheeling-----	Very limited		Very limited	
	Seepage, bottom layer	1.00	Seepage	1.00
	Slow water movement	0.46	Flooding	0.40
	Flooding	0.40		
7463B: Wheeling-----	Very limited		Very limited	
	Seepage, bottom layer	1.00	Seepage	1.00
	Slow water movement	0.46	Flooding	0.40
	Flooding	0.40	Slope	0.32
7463C2: Wheeling-----	Very limited		Very limited	
	Seepage, bottom layer	1.00	Seepage	1.00
	Slow water movement	0.46	Slope	1.00
	Flooding	0.40	Flooding	0.40
	Slope	0.01		
7463D3: Wheeling-----	Very limited		Very limited	
	Seepage, bottom layer	1.00	Slope	1.00
	Slope	0.96	Seepage	1.00
	Slow water movement	0.46	Flooding	0.40
	Flooding	0.40		

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
7711A: Hatfield-----	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Seepage Flooding	1.00 0.53 0.40
7711B: Hatfield-----	Very limited Slow water movement Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Seepage Flooding Slope	1.00 0.53 0.40 0.32
8070A: Beaucoup-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 0.46	Very limited Ponding Flooding Depth to saturated zone Seepage	1.00 1.00 1.00 0.53
8071A: Darwin-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
8072A: Sharon-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Flooding Depth to saturated zone Seepage	1.00 0.71 0.53
8085A: Jacob-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
8108A: Bonnie-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
8109A: Raccoon-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
8162A: Gorham-----	Very limited Flooding Ponding Depth to saturated zone Seepage, bottom layer Slow water movement	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Flooding Seepage Depth to saturated zone	1.00 1.00 1.00 1.00
8178A: Ruark-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Seepage	1.00 1.00 1.00 0.53
8180A: Dupo-----	Very limited Flooding Slow water movement Depth to saturated zone	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.53
8184A: Roby-----	Very limited Flooding Depth to saturated zone Seepage, bottom layer Slow water movement	1.00 1.00 1.00 0.46	Very limited Flooding Seepage Depth to saturated zone	1.00 1.00 1.00
8184B: Roby-----	Very limited Flooding Depth to saturated zone Seepage, bottom layer Slow water movement	1.00 1.00 1.00 0.46	Very limited Flooding Seepage Depth to saturated zone Slope	1.00 1.00 1.00 0.32

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
8284A: Tice-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.53
8288A: Petrolia-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
8331A: Haymond-----	Very limited Flooding Slow water movement	1.00 0.46	Very limited Flooding Seepage	1.00 0.53
8333A: Wakeland-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.46	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.53
8334A: Birds-----	Very limited Flooding Ponding Depth to saturated zone Slow water movement	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
8382A: Belknap-----	Very limited Flooding Depth to saturated zone Slow water movement	1.00 1.00 0.72	Very limited Flooding Depth to saturated zone Seepage	1.00 1.00 0.28
8420A: Piopolis-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value
8422A: Cape-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
8422A+: Cape-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone Seepage	1.00 1.00 1.00 0.53
8426A: Karnak-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
8426A+: Karnak-----	Very limited Flooding Slow water movement Ponding Depth to saturated zone	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
8597A: Armiesburg-----	Very limited Flooding Slow water movement	1.00 0.46	Very limited Flooding Seepage	1.00 0.53
MW: Miscellaneous water-	Not rated		Not rated	
W: Water-----	Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
79C: Menfro-----	Somewhat limited Too clayey Slope	0.50 0.01	Somewhat limited Slope	0.01	Somewhat limited Too clayey Slope	0.50 0.01
79C2: Menfro-----	Somewhat limited Too clayey Slope	0.50 0.01	Somewhat limited Slope	0.01	Somewhat limited Too clayey Slope	0.50 0.01
79C3: Menfro-----	Somewhat limited Too clayey Slope	0.50 0.01	Somewhat limited Slope	0.01	Somewhat limited Too clayey Slope	0.50 0.01
79D: Menfro-----	Somewhat limited Slope Too clayey	0.96 0.50	Somewhat limited Slope	0.96	Somewhat limited Slope Too clayey	0.96 0.50
79D2: Menfro-----	Somewhat limited Slope Too clayey	0.96 0.50	Somewhat limited Slope	0.96	Somewhat limited Slope Too clayey	0.96 0.50
79D3: Menfro-----	Somewhat limited Slope Too clayey	0.96 0.50	Somewhat limited Slope	0.96	Somewhat limited Slope Too clayey	0.96 0.50
79E: Menfro-----	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
79E2: Menfro-----	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
79E3: Menfro-----	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
79F: Menfro-----	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164A: Stoy-----	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75	Somewhat limited Depth to saturated zone Too clayey	0.86 0.50
164B: Stoy-----	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75	Somewhat limited Depth to saturated zone Too clayey	0.86 0.50
165A: Weir-----	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding	1.00 1.00	Very limited Depth to saturated zone Ponding Too clayey	1.00 1.00 0.50
175B: Lamont-----	Very limited Seepage, bottom layer Too sandy	1.00 0.50	Very limited Seepage	1.00	Very limited Seepage Too sandy	1.00 0.50
214B: Hosmer-----	Somewhat limited Depth to saturated zone Too clayey	0.84 0.50	Very limited Depth to cemented pan Depth to saturated zone	1.00 0.17	Very limited Depth to cemented pan Too clayey Depth to saturated zone	1.00 0.50 0.44
214C: Hosmer-----	Somewhat limited Depth to saturated zone Too clayey Slope	0.84 0.50 0.01	Very limited Depth to cemented pan Depth to saturated zone Slope	1.00 0.17 0.01	Very limited Depth to cemented pan Too clayey Depth to saturated zone Slope	1.00 0.50 0.44 0.01
214C2: Hosmer-----	Somewhat limited Depth to saturated zone Too clayey Slope	0.84 0.50 0.01	Very limited Depth to cemented pan Depth to saturated zone Slope	1.00 0.17 0.01	Very limited Depth to cemented pan Too clayey Depth to saturated zone Slope	1.00 0.50 0.44 0.01
214C3: Hosmer-----	Somewhat limited Depth to saturated zone Too clayey Slope	0.84 0.50 0.01	Very limited Depth to cemented pan Depth to saturated zone Slope	1.00 0.17 0.01	Very limited Depth to cemented pan Too clayey Depth to saturated zone Slope	1.00 0.50 0.44 0.01

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
214D2: Hosmer-----	Somewhat limited Slope Depth to saturated zone Too clayey	0.96 0.84 0.50	Very limited Depth to cemented pan Slope Depth to saturated zone	1.00 0.96 0.17	Very limited Depth to cemented pan Slope Too clayey Depth to saturated zone	1.00 0.96 0.50 0.44
214D3: Hosmer-----	Somewhat limited Slope Depth to saturated zone Too clayey	0.96 0.84 0.50	Very limited Depth to cemented pan Slope Depth to saturated zone	1.00 0.96 0.17	Very limited Depth to cemented pan Slope Too clayey Depth to saturated zone	1.00 0.96 0.50 0.44
216D2: Stookey-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96
216E: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216E2: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216E3: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216F: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
216G: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
308B: Alford-----	Not limited		Not limited		Somewhat limited Too clayey	0.50
308C: Alford-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Somewhat limited Too clayey Slope	0.50 0.01
308C2: Alford-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01
308C3: Alford-----	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01	Somewhat limited Slope	0.01

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308D: Alford-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Somewhat limited Slope Too clayey	0.96 0.50
308D2: Alford-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96
308D3: Alford-----	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96
308E: Alford-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
308E2: Alford-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
308E3: Alford-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
308F: Alford-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
453C: Muren-----	Very limited Depth to saturated zone Too clayey Slope	1.00 0.50 0.01	Very limited Depth to saturated zone Slope	1.00 0.01	Somewhat limited Depth to saturated zone Too clayey Slope	0.99 0.50 0.01
453C3: Muren-----	Very limited Depth to saturated zone Too clayey Slope	1.00 0.50 0.01	Very limited Depth to saturated zone Slope	1.00 0.01	Somewhat limited Depth to saturated zone Too clayey Slope	0.99 0.50 0.01
453D2: Muren-----	Very limited Depth to saturated zone Slope Too clayey	1.00 0.96 0.50	Very limited Depth to saturated zone Slope	1.00 0.96	Somewhat limited Depth to saturated zone Slope Too clayey	0.99 0.96 0.50
453D3: Muren-----	Very limited Depth to saturated zone Slope Too clayey	1.00 0.96 0.50	Very limited Depth to saturated zone Slope	1.00 0.96	Somewhat limited Depth to saturated zone Slope Too clayey	0.99 0.96 0.50

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
477B: Winfield-----	Very limited Depth to saturated zone Too clayey	1.00 0.50	Very limited Depth to saturated zone	1.00	Somewhat limited Too clayey Depth to saturated zone	0.50 0.24
477C2: Winfield-----	Very limited Depth to saturated zone Too clayey Slope	1.00 0.50 0.01	Very limited Depth to saturated zone Slope	1.00 0.01	Somewhat limited Too clayey Depth to saturated zone Slope	0.50 0.24 0.01
477C3: Winfield-----	Very limited Depth to saturated zone Too clayey Slope	1.00 0.50 0.01	Very limited Depth to saturated zone Slope	1.00 0.01	Somewhat limited Too clayey Depth to saturated zone Slope	0.50 0.24 0.01
477D2: Winfield-----	Very limited Depth to saturated zone Slope Too clayey	1.00 0.96 0.50	Very limited Depth to saturated zone Slope	1.00 0.96	Somewhat limited Slope Too clayey Depth to saturated zone	0.96 0.50 0.24
477D3: Winfield-----	Very limited Depth to saturated zone Slope Too clayey	1.00 0.96 0.50	Very limited Depth to saturated zone Slope	1.00 0.96	Somewhat limited Slope Too clayey Depth to saturated zone	0.96 0.50 0.24
694D2: Menfro-----	Somewhat limited Slope Too clayey	0.96 0.50	Somewhat limited Slope	0.96	Somewhat limited Slope Too clayey	0.96 0.50
Baxter-----	Very limited Too clayey Slope	1.00 0.96	Somewhat limited Slope	0.96	Very limited Too clayey Hard to compact Slope Gravel content	1.00 1.00 0.96 0.31
694F: Menfro-----	Very limited Slope Too clayey	1.00 0.50	Very limited Slope	1.00	Very limited Slope Too clayey	1.00 0.50
Baxter-----	Very limited Slope Too clayey	1.00 1.00	Very limited Slope	1.00	Very limited Slope Too clayey Hard to compact Gravel content	1.00 1.00 1.00 0.29
717F: Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
717F: Clarksville-----	Very limited Slope Too clayey	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Too clayey Gravel content	1.00 1.00 0.96
717G: Clarksville-----	Very limited Slope Too clayey	1.00 1.00	Very limited Slope Seepage	1.00 1.00	Very limited Slope Too clayey Gravel content	1.00 1.00 0.96
Stookey-----	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
801B: Orthents-----	Not limited		Not limited		Not limited	
802D: Orthents-----	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37
864: Pits, quarries-----	Not rated		Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
Petrolia-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 0.50
1845A: Darwin-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00
Jacob-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1846A: Karnak-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
Cape-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
3070A: Beaucoup-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00 0.50
3070L: Beaucoup-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00 0.50
3071A: Darwin-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
3072A: Sharon-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
3108A: Bonnie-----	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
3162L: Gorham-----	Very limited Flooding Depth to saturated zone Ponding Seepage, bottom layer Too clayey	1.00 1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Hard to compact Seepage Too clayey	1.00 1.00 1.00 1.00 0.50

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3180A: Dupo-----	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00
3284A: Tice-----	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Hard to compact Too clayey	1.00 1.00 1.00 0.50
3284L: Tice-----	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Hard to compact Too clayey	1.00 1.00 1.00 0.50
3288A: Petrolia-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00 0.50
3288L: Petrolia-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00 0.50
3331A: Haymond-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Not limited	
3331L: Haymond-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Not limited	
3333A: Wakeland-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
3333L: Wakeland-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3334A: Birds-----	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
3334L: Birds-----	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
3382A: Belknap-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
3420A: Piopolis-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 0.50
3422A: Cape-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00
3422A+: Cape-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00
3426A: Karnak-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00
3426A+: Karnak-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3426L: Karnak-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
3449L: Armiesburg-----	Very limited Flooding Too clayey	1.00 0.50	Very limited Flooding	1.00	Somewhat limited Too clayey	0.50
Sarpy-----	Very limited Flooding Seepage, bottom layer Too sandy	1.00 1.00 1.00	Very limited Flooding Seepage	1.00 1.00	Very limited Too sandy Seepage	1.00 1.00
3456BL: Ware-----	Very limited Flooding Seepage, bottom layer	1.00 1.00	Very limited Flooding Seepage	1.00 1.00	Very limited Seepage	1.00
3597L: Armiesburg-----	Very limited Flooding Too clayey	1.00 0.50	Very limited Flooding	1.00	Somewhat limited Too clayey	0.50
5079B2: Menfro-----	Somewhat limited Too clayey	0.50	Not limited		Somewhat limited Too clayey	0.50
5079C3: Menfro-----	Somewhat limited Too clayey Slope	0.50 0.01	Somewhat limited Slope	0.01	Somewhat limited Too clayey Slope	0.50 0.01
5079D3: Menfro-----	Somewhat limited Slope Too clayey	0.96 0.50	Somewhat limited Slope	0.96	Somewhat limited Slope Too clayey	0.96 0.50
7084A: Okaw-----	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00
7122B: Colp-----	Very limited Depth to saturated zone Too clayey Flooding	1.00 0.50 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Hard to compact Too clayey Depth to saturated zone	1.00 0.50 0.09

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7122C2: Colp-----	Very limited Depth to saturated zone Too clayey Flooding	1.00 1.00 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Too clayey Depth to saturated zone	1.00 0.09
7122D2: Colp-----	Very limited Depth to saturated zone Too clayey Slope Flooding	1.00 1.00 0.96 0.40	Very limited Depth to saturated zone Slope Flooding	1.00 0.96 0.40	Very limited Too clayey Slope Depth to saturated zone	1.00 0.96 0.09
7131A: Alvin-----	Very limited Seepage, bottom layer Too sandy Flooding	1.00 0.50 0.40	Very limited Seepage Flooding	1.00 0.40	Somewhat limited Seepage Too sandy	0.52 0.50
7131B: Alvin-----	Very limited Seepage, bottom layer Too sandy Flooding	1.00 0.50 0.40	Very limited Seepage Flooding	1.00 0.40	Somewhat limited Seepage Too sandy	0.52 0.50
7131C: Alvin-----	Very limited Seepage, bottom layer Too sandy Flooding Slope	1.00 0.50 0.40 0.01	Very limited Seepage Flooding Slope	1.00 0.40 0.01	Somewhat limited Seepage Too sandy Slope	0.52 0.50 0.01
7131C2: Alvin-----	Very limited Seepage, bottom layer Too sandy Flooding Slope	1.00 0.50 0.40 0.01	Very limited Seepage Flooding Slope	1.00 0.40 0.01	Somewhat limited Seepage Too sandy Slope	0.52 0.50 0.01
7131D2: Alvin-----	Very limited Seepage, bottom layer Slope Too sandy Flooding	1.00 0.96 0.50 0.40	Very limited Seepage Slope Flooding	1.00 0.96 0.40	Somewhat limited Slope Seepage Too sandy	0.96 0.52 0.50
7338A: Hurst-----	Very limited Depth to saturated zone Too clayey Flooding	1.00 0.50 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Hard to compact Depth to saturated zone Too clayey	1.00 0.88 0.50

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7338B: Hurst-----	Very limited Depth to saturated zone Too clayey Flooding	1.00 0.50 0.40	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Hard to compact Depth to saturated zone Too clayey	1.00 0.88 0.50
7401A: Okaw-----	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00
7460A: Ginat-----	Very limited Depth to saturated zone Ponding Too clayey Flooding	1.00 1.00 0.50 0.40	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.40	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 0.50
7462A: Sciotoville-----	Very limited Seepage, bottom layer Depth to saturated zone Flooding	1.00 0.95 0.40	Somewhat limited Depth to saturated zone Flooding	0.44 0.40	Somewhat limited Depth to saturated zone Seepage	0.68 0.52
7462B: Sciotoville-----	Very limited Seepage, bottom layer Depth to saturated zone Flooding	1.00 0.95 0.40	Somewhat limited Depth to saturated zone Flooding	0.44 0.40	Somewhat limited Depth to saturated zone Seepage	0.68 0.52
7462C2: Sciotoville-----	Very limited Seepage, bottom layer Depth to saturated zone Flooding Slope	1.00 0.95 0.40 0.01	Somewhat limited Depth to saturated zone Flooding Slope	0.44 0.40 0.01	Somewhat limited Depth to saturated zone Seepage Slope	0.68 0.52 0.01
7462C3: Sciotoville-----	Very limited Seepage, bottom layer Depth to saturated zone Flooding Slope	1.00 0.95 0.40 0.01	Somewhat limited Depth to saturated zone Flooding Slope	0.44 0.40 0.01	Somewhat limited Depth to saturated zone Seepage Slope	0.68 0.52 0.01

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7462D2: Sciotoville-----	Very limited Seepage, bottom layer	1.00	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96
	Slope	0.96	Depth to saturated zone	0.44	Depth to saturated zone	0.68
	Depth to saturated zone	0.95	Flooding	0.40	Seepage	0.52
	Flooding	0.40				
7462D3: Sciotoville-----	Very limited Seepage, bottom layer	1.00	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96
	Slope	0.96	Depth to saturated zone	0.44	Depth to saturated zone	0.68
	Depth to saturated zone	0.95	Flooding	0.40	Seepage	0.52
	Flooding	0.40				
7463A: Wheeling-----	Very limited Seepage, bottom layer	1.00	Somewhat limited Flooding	0.40	Somewhat limited Too clayey	0.50
	Too clayey	0.50				
	Flooding	0.40				
7463B: Wheeling-----	Very limited Seepage, bottom layer	1.00	Somewhat limited Flooding	0.40	Somewhat limited Too clayey	0.50
	Too clayey	0.50				
	Flooding	0.40				
7463C2: Wheeling-----	Very limited Seepage, bottom layer	1.00	Somewhat limited Flooding	0.40	Somewhat limited Too clayey	0.50
	Too clayey	0.50	Slope	0.01	Slope	0.01
	Flooding	0.40				
	Slope	0.01				
7463D3: Wheeling-----	Very limited Seepage, bottom layer	1.00	Somewhat limited Slope	0.96	Very limited Seepage	1.00
	Slope	0.96	Flooding	0.40	Slope	0.96
	Too clayey	0.50			Too clayey	0.50
	Flooding	0.40			Gravel content	0.01
7711A: Hatfield-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
	Too clayey	0.50	Flooding	0.40		
	Flooding	0.40				
7711B: Hatfield-----	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
	Too clayey	0.50	Flooding	0.40		
	Flooding	0.40				

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8070A: Beaucoup-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00 0.50
8071A: Darwin-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
8072A: Sharon-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Not limited	
8085A: Jacob-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
8108A: Bonnie-----	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
8109A: Raccoon-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00 0.50
8162A: Gorham-----	Very limited Flooding Depth to saturated zone Ponding Seepage, bottom layer Too clayey	1.00 1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Hard to compact Seepage Too clayey	1.00 1.00 1.00 1.00 1.00 0.50
8178A: Ruark-----	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8180A: Dupo-----	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00
8184A: Roby-----	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone	0.86
8184B: Roby-----	Very limited Flooding Depth to saturated zone Seepage, bottom layer	1.00 1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone	0.86
8284A: Tice-----	Very limited Flooding Depth to saturated zone Too clayey	1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Hard to compact Too clayey	1.00 1.00 0.50
8288A: Petrolia-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
8331A: Haymond-----	Very limited Flooding	1.00	Very limited Flooding	1.00	Not limited	
8333A: Wakeland-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
8334A: Birds-----	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
8382A: Belknap-----	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00

Soil Survey of Pulaski County, Illinois

Table 16.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8420A: Piopolis-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 0.50	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00 0.50
8422A: Cape-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
8422A+: Cape-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
8426A: Karnak-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
8426A+: Karnak-----	Very limited Flooding Depth to saturated zone Ponding Too clayey	1.00 1.00 1.00 1.00	Very limited Flooding Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Hard to compact	1.00 1.00 1.00 1.00 1.00
8597A: Armiesburg-----	Very limited Flooding Too clayey	1.00 0.50	Very limited Flooding	1.00	Somewhat limited Too clayey	0.50
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
79B: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79C: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79C2: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79C3: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79D: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79D2: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79D3: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79E: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79E2: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
79E3: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
79F: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
164A: Stoy-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
164B: Stoy-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
165A: Weir-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
175B: Lamont-----	Poor		Fair	
	Bottom layer	0.00	Thickest layer	0.03
	Thickest layer	0.00	Bottom layer	0.04
214B: Hosmer-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
214C: Hosmer-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
214C2: Hosmer-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
214C3: Hosmer-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
214D2: Hosmer-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
214D3: Hosmer-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
216D2: Stookey-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
216E: Stookey-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
216E2: Stookey-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
216E3: Stookey-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
216F: Stookey-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
216G: Stookey-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308B: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308C: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308C2: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308C3: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308D: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308D2: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308D3: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
308E: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308E2: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308E3: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
308F: Alford-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
453C: Muren-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
453C3: Muren-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
453D2: Muren-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
453D3: Muren-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
477B: Winfield-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
477C2: Winfield-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
477C3: Winfield-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
477D2: Winfield-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
477D3: Winfield-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
694D2: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
Baxter-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
694F: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
Baxter-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
717F: Stookey-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
Clarksville-----	Poor		Poor	
	Thickest layer	0.00	Bottom layer	0.00
	Bottom layer	0.00	Thickest layer	0.00
717G: Clarksville-----	Poor		Poor	
	Thickest layer	0.00	Bottom layer	0.00
	Bottom layer	0.00	Thickest layer	0.00
Stookey-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
801B: Orthents-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
802D: Orthents-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
864: Pits, quarries-----	Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated	
1843A: Bonnie-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
1843A: Petrolia-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
1845A: Darwin-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
Jacob-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
1846A: Karnak-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
Cape-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3070A: Beaucoup-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3070L: Beaucoup-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3071A: Darwin-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3072A: Sharon-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3108A: Bonnie-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3162L: Gorham-----	Poor		Fair	
	Bottom layer	0.00	Thickest layer	0.00
	Thickest layer	0.00	Bottom layer	0.28
3180A: Dupo-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3284A: Tice-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
3284L: Tice-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3288A: Petrolia-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3288L: Petrolia-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3331A: Haymond-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3331L: Haymond-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3333A: Wakeland-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3333L: Wakefield-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3334A: Birds-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3334L: Birds-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3382A: Belknap-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3420A: Piopolis-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3422A: Cape-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
3422A+: Cape-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3426A: Karnak-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3426A+: Karnak-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3426L: Karnak-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3449L: Armiesburg-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
Sarpy-----	Poor		Fair	
	Bottom layer	0.00	Thickest layer	0.37
	Thickest layer	0.00	Bottom layer	0.51
3456BL: Ware-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
3597L: Armiesburg-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
5079B2: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
5079C3: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
5079D3: Menfro-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7084A: Okaw-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
7122B: Colp-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7122C2: Colp-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7122D2: Colp-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7131A: Alvin-----	Poor		Fair	
	Bottom layer	0.00	Bottom layer	0.03
	Thickest layer	0.00	Thickest layer	0.25
7131B: Alvin-----	Poor		Fair	
	Bottom layer	0.00	Bottom layer	0.03
	Thickest layer	0.00	Thickest layer	0.25
7131C: Alvin-----	Poor		Fair	
	Bottom layer	0.00	Thickest layer	0.03
	Thickest layer	0.00	Bottom layer	0.25
7131C2: Alvin-----	Poor		Fair	
	Bottom layer	0.00	Bottom layer	0.03
	Thickest layer	0.00	Thickest layer	0.25
7131D2: Alvin-----	Poor		Fair	
	Bottom layer	0.00	Bottom layer	0.03
	Thickest layer	0.00	Thickest layer	0.25
7338A: Hurst-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7338B: Hurst-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7401A: Okaw-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7460A: Ginat-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
7462A: Sciotoville-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7462B: Sciotoville-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7462C2: Sciotoville-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7462C3: Sciotoville-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7462D2: Sciotoville-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7462D3: Sciotoville-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7463A: Wheeling-----	Poor		Poor	
	Thickest layer	0.00	Bottom layer	0.00
	Bottom layer	0.00	Thickest layer	0.00
7463B: Wheeling-----	Poor		Poor	
	Thickest layer	0.00	Bottom layer	0.00
	Bottom layer	0.00	Thickest layer	0.00
7463C2: Wheeling-----	Poor		Poor	
	Thickest layer	0.00	Bottom layer	0.00
	Bottom layer	0.00	Thickest layer	0.00
7463D3: Wheeling-----	Poor		Poor	
	Thickest layer	0.00	Bottom layer	0.00
	Bottom layer	0.00	Thickest layer	0.00
7711A: Hatfield-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
7711B: Hatfield-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
8070A: Beaucoup-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8071A: Darwin-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8072A: Sharon-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8085A: Jacob-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8108A: Bonnie-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8109A: Raccoon-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8162A: Gorham-----	Poor		Fair	
	Bottom layer	0.00	Thickest layer	0.00
	Thickest layer	0.00	Bottom layer	0.28
8178A: Ruark-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8180A: Dupo-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8184A: Roby-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8184B: Roby-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8284A: Tice-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part I—Continued

Map symbol and soil name	Potential source of gravel		Potential source of sand	
	Rating class	Value	Rating class	Value
8288A: Petrolia-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8331A: Haymond-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8333A: Wakeland-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8334A: Birds-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8382A: Belknap-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8420A: Piopolis-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8422A: Cape-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8422A+: Cape-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8426A: Karnak-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8426A+: Karnak-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
8597A: Armiesburg-----	Poor		Poor	
	Bottom layer	0.00	Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
MW: Miscellaneous water-	Not rated		Not rated	
W: Water-----	Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Fair		Poor		Good	
	Organic matter content low	0.12	Low strength	0.00		
	Water erosion	0.90	Shrink-swell	0.87		
	Too acid	0.97				
79C: Menfro-----	Fair		Poor		Good	
	Organic matter content low	0.12	Low strength	0.00		
	Water erosion	0.90	Shrink-swell	0.87		
	Too acid	0.97				
79C2: Menfro-----	Fair		Poor		Good	
	Organic matter content low	0.12	Low strength	0.00		
	Water erosion	0.90	Shrink-swell	0.87		
	Too acid	0.97				
79C3: Menfro-----	Fair		Poor		Good	
	Organic matter content low	0.12	Low strength	0.00		
	Water erosion	0.90	Shrink-swell	0.89		
	Too acid	0.97				
79D: Menfro-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.04
	Water erosion	0.90	Shrink-swell	0.87		
	Too acid	0.97				
79D2: Menfro-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.04
	Water erosion	0.90	Shrink-swell	0.87		
	Too acid	0.97				
79D3: Menfro-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.04
	Water erosion	0.90	Shrink-swell	0.89		
	Too acid	0.97				
79E: Menfro-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.00
	Water erosion	0.90	Slope	0.18		
	Too acid	0.97	Shrink-swell	0.87		

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79E2: Menfro-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.00
	Water erosion	0.90	Slope	0.18		
	Too acid	0.97	Shrink-swell	0.87		
79E3: Menfro-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.00
	Water erosion	0.90	Slope	0.18		
	Too acid	0.97	Shrink-swell	0.89		
79F: Menfro-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Slope	0.00	Slope	0.00
	Water erosion	0.90	Low strength	0.00		
	Too acid	0.97	Shrink-swell	0.87		
164A: Stoy-----	Fair		Poor		Fair	
	Organic matter content low	0.08	Low strength	0.00	Wetness depth	0.53
	Too acid	0.32	Wetness depth	0.53	Too clayey	0.64
	Water erosion	0.90	Shrink-swell	0.99	Too acid	0.88
	Too clayey	0.98				
164B: Stoy-----	Fair		Poor		Fair	
	Organic matter content low	0.08	Low strength	0.00	Wetness depth	0.53
	Too acid	0.32	Wetness depth	0.53	Too clayey	0.64
	Water erosion	0.90	Shrink-swell	0.99	Too acid	0.88
	Too clayey	0.98				
165A: Weir-----	Poor		Poor		Poor	
	Organic matter content low	0.00	Wetness depth	0.00	Wetness depth	0.00
	Too clayey	0.08	Low strength	0.00	Too clayey	0.04
	Water erosion	0.37	Shrink-swell	0.92	Too acid	0.88
	Too acid	0.50				
175B: Lamont-----	Poor		Good		Poor	
	Too sandy	0.00			Too sandy	0.00
	Organic matter content low	0.12				
	Too acid	0.84				
214B: Hosmer-----	Fair		Poor		Fair	
	Too acid	0.32	Depth to cemented pan	0.00	Depth to cemented pan	0.36
	Depth to cemented pan	0.36	Low strength	0.22	Too acid	0.88
	Organic matter content low	0.50	Shrink-swell	0.87	Wetness depth	0.91
	Water erosion	0.90	Wetness depth	0.91		
	Droughty	0.99				

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
214C: Hosmer-----	Fair		Poor		Fair	
	Too acid	0.32	Depth to cemented	0.00	Depth to cemented	0.36
	Depth to cemented	0.36	pan		pan	
	Organic matter	0.50	Low strength	0.22	Too acid	0.88
	content low		Shrink-swell	0.87	Wetness depth	0.91
	Water erosion	0.90	Wetness depth	0.91		
	Droughty	0.99				
214C2: Hosmer-----	Fair		Poor		Fair	
	Too acid	0.32	Depth to cemented	0.00	Depth to cemented	0.36
	Depth to cemented	0.36	pan		pan	
	Organic matter	0.50	Low strength	0.22	Too acid	0.88
	content low		Shrink-swell	0.87	Wetness depth	0.91
	Water erosion	0.90	Wetness depth	0.91		
	Droughty	0.99				
214C3: Hosmer-----	Fair		Poor		Fair	
	Too acid	0.32	Depth to cemented	0.00	Depth to cemented	0.36
	Depth to cemented	0.36	pan		pan	
	Organic matter	0.50	Low strength	0.22	Too acid	0.88
	content low		Shrink-swell	0.87	Wetness depth	0.91
	Water erosion	0.90	Wetness depth	0.91		
	Droughty	0.99				
214D2: Hosmer-----	Fair		Poor		Fair	
	Depth to cemented	0.14	Depth to cemented	0.00	Slope	0.04
	pan		pan		Depth to cemented	0.14
	Too acid	0.32	Low strength	0.22	pan	
	Organic matter	0.50	Shrink-swell	0.87	Too acid	0.88
	content low		Wetness depth	0.91	Wetness depth	0.91
	Droughty	0.84				
	Water erosion	0.90				
214D3: Hosmer-----	Fair		Poor		Fair	
	Depth to cemented	0.14	Depth to cemented	0.00	Slope	0.04
	pan		pan		Depth to cemented	0.14
	Too acid	0.32	Low strength	0.22	pan	
	Organic matter	0.50	Shrink-swell	0.87	Too acid	0.88
	content low		Wetness depth	0.91	Wetness depth	0.91
	Droughty	0.84				
	Water erosion	0.90				
216D2: Stookey-----	Fair		Poor		Fair	
	Organic matter	0.12	Low strength	0.00	Slope	0.04
	content low					
	Water erosion	0.68				
	Too acid	0.68				

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
216E: Stookey-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.00
	Water erosion	0.68	Slope	0.18		
	Too acid	0.68				
216E2: Stookey-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.00
	Water erosion	0.68	Slope	0.18		
	Too acid	0.68				
216E3: Stookey-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.00
	Water erosion	0.68	Slope	0.18		
	Too acid	0.68				
216F: Stookey-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Slope	0.00	Slope	0.00
	Water erosion	0.68	Low strength	0.00		
	Too acid	0.68				
216G: Stookey-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Slope	0.00	Slope	0.00
	Water erosion	0.68	Low strength	0.00		
	Too acid	0.68				
308B: Alford-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Shrink-swell	0.99	Too acid	0.98
	Water erosion	0.37				
	Too acid	0.54				
308C: Alford-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Shrink-swell	0.99	Too acid	0.98
	Water erosion	0.37				
	Too acid	0.54				
308C2: Alford-----	Fair		Good		Fair	
	Organic matter content low	0.12			Too acid	0.98
	Water erosion	0.37				
	Too acid	0.54				
308C3: Alford-----	Fair		Good		Fair	
	Organic matter content low	0.12			Too acid	0.98
	Water erosion	0.37				
	Too acid	0.54				

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308D: Alford-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Shrink-swell	0.99	Slope	0.04
	Water erosion	0.37			Too acid	0.98
	Too acid	0.54				
308D2: Alford-----	Fair		Good		Fair	
	Organic matter content low	0.12			Slope	0.04
	Water erosion	0.37			Too acid	0.98
	Too acid	0.54				
308D3: Alford-----	Fair		Good		Fair	
	Organic matter content low	0.12			Slope	0.04
	Water erosion	0.37			Too acid	0.98
	Too acid	0.54				
308E: Alford-----	Fair		Fair		Poor	
	Organic matter content low	0.12	Slope	0.18	Slope	0.00
	Water erosion	0.37	Shrink-swell	0.99	Too acid	0.98
	Too acid	0.54				
308E2: Alford-----	Fair		Fair		Poor	
	Organic matter content low	0.12	Slope	0.18	Slope	0.00
	Water erosion	0.37			Too acid	0.98
	Too acid	0.54				
308E3: Alford-----	Fair		Fair		Poor	
	Organic matter content low	0.12	Slope	0.18	Slope	0.00
	Water erosion	0.37			Too acid	0.98
	Too acid	0.54				
308F: Alford-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Slope	0.00	Slope	0.00
	Water erosion	0.37	Shrink-swell	0.99	Too acid	0.98
	Too acid	0.54				
453C: Muren-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.18
	Too acid	0.74	Wetness depth	0.18		
	Water erosion	0.90	Shrink-swell	0.97		
453C3: Muren-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.18
	Too acid	0.74	Wetness depth	0.18		
	Water erosion	0.90	Shrink-swell	0.97		

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
453D2: Muren-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.04
	Too acid	0.74	Wetness depth	0.18	Wetness depth	0.18
	Water erosion	0.90	Shrink-swell	0.97		
453D3: Muren-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.04
	Too acid	0.74	Wetness depth	0.18	Wetness depth	0.18
	Water erosion	0.90	Shrink-swell	0.97		
477B: Winfield-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.98
	Too acid	0.68	Shrink-swell	0.90		
	Water erosion	0.99	Wetness depth	0.98		
477C2: Winfield-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.98
	Too acid	0.68	Shrink-swell	0.93		
	Water erosion	0.99	Wetness depth	0.98		
477C3: Winfield-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.98
	Too acid	0.68	Shrink-swell	0.94		
	Water erosion	0.99	Wetness depth	0.98		
477D2: Winfield-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.04
	Too acid	0.68	Shrink-swell	0.93	Wetness depth	0.98
	Water erosion	0.99	Wetness depth	0.98		
477D3: Winfield-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.04
	Too acid	0.68	Shrink-swell	0.94	Wetness depth	0.98
	Water erosion	0.99	Wetness depth	0.98		
694D2: Menfro-----	Fair		Poor		Fair	
	Organic matter content low	0.12	Low strength	0.00	Slope	0.04
	Water erosion	0.90	Shrink-swell	0.87		
	Too acid	0.97				

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
694D2: Baxter-----	Poor Too clayey Organic matter content low Too acid	0.00 0.01 0.32	Poor Low strength Shrink-swell	0.00 0.89	Poor Too clayey Rock fragments Slope Hard to reclaim (rock fragments) Too acid	0.00 0.00 0.04 0.18 0.88
694F: Menfro-----	Fair Organic matter content low Water erosion Too acid	0.12 0.90 0.97	Poor Low strength Slope Shrink-swell	0.00 0.00 0.87	Poor Slope	0.00
Baxter-----	Poor Too clayey Organic matter content low Too acid	0.00 0.01 0.32	Poor Slope Low strength Shrink-swell	0.00 0.00 0.92	Poor Slope Too clayey Rock fragments Hard to reclaim (rock fragments) Too acid	0.00 0.00 0.00 0.18 0.88
717F: Stookey-----	Fair Organic matter content low Water erosion Too acid	0.12 0.68 0.68	Poor Low strength Slope	0.00 0.00	Poor Slope	0.00
Clarksville-----	Fair Organic matter content low Too acid	0.11 0.50	Poor Slope Shrink-swell	0.00 0.98	Poor Slope Hard to reclaim (rock fragments) Rock fragments Too acid	0.00 0.00 0.03 0.76
717G: Clarksville-----	Fair Organic matter content low Too acid	0.11 0.50	Poor Slope Shrink-swell	0.00 0.98	Poor Slope Hard to reclaim (rock fragments) Rock fragments Too acid	0.00 0.00 0.03 0.76
Stookey-----	Fair Organic matter content low Water erosion Too acid	0.12 0.68 0.68	Poor Slope Low strength	0.00 0.00	Poor Slope	0.00
801B: Orthents-----	Fair Organic matter content low Too acid Water erosion	0.12 0.84 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
802D: Orthents-----	Fair Organic matter content low Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope	0.63
864: Pits, quarries-----	Not rated		Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Fair Too acid Organic matter content low Water erosion	0.50 0.50 0.68	Poor Wetness depth Low strength	0.00 0.00	Poor Wetness depth Too acid	0.00 0.88
Petrolia-----	Fair Organic matter content low Too clayey	0.68 0.98	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.87	Poor Wetness depth Too clayey	0.00 0.67
1845A: Darwin-----	Poor Too clayey	0.00	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.00	Poor Too clayey Wetness depth	0.00 0.00
Jacob-----	Poor Too clayey Too acid	0.00 0.12	Poor Wetness depth Shrink-swell Low strength	0.00 0.00 0.00	Poor Too clayey Wetness depth Too acid	0.00 0.00 0.59
1846A: Karnak-----	Poor Too clayey Organic matter content low Too acid	0.00 0.12 0.84	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.12	Poor Too clayey Wetness depth	0.00 0.00
Cape-----	Poor Too clayey Too acid Organic matter content low	0.00 0.50 0.50	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.28	Poor Wetness depth Too clayey Too acid	0.00 0.00 0.59
3070A: Beaucoup-----	Fair Too clayey	0.98	Poor Wetness depth Low strength Shrink-swell	0.00 0.22 0.87	Poor Wetness depth Too clayey	0.00 0.76
3070L: Beaucoup-----	Fair Too clayey	0.98	Poor Wetness depth Low strength Shrink-swell	0.00 0.22 0.87	Poor Wetness depth Too clayey	0.00 0.76

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3071A: Darwin-----	Poor Too clayey	0.00	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.00	Poor Too clayey Wetness depth	0.00 0.00
3072A: Sharon-----	Fair Organic matter content low Too acid Water erosion	0.24 0.50 0.68	Good		Fair Too acid	0.88
3108A: Bonnie-----	Fair Too acid Organic matter content low Water erosion	0.50 0.50 0.68	Poor Wetness depth Low strength	0.00 0.00	Poor Wetness depth Too acid	0.00 0.88
3162L: Gorham-----	Fair Too clayey Organic matter content low	0.50 0.68	Poor Wetness depth Shrink-swell	0.00 0.92	Poor Wetness depth Too clayey	0.00 0.34
3180A: Dupo-----	Fair Water erosion Organic matter content low	0.68 0.68	Poor Low strength Wetness depth Shrink-swell	0.00 0.03 0.61	Fair Wetness depth	0.03
3284A: Tice-----	Fair Organic matter content low Too clayey	0.50 0.98	Fair Wetness depth Low strength Shrink-swell	0.04 0.22 0.87	Fair Wetness depth Too clayey	0.04 0.64
3284L: Tice-----	Fair Organic matter content low Too clayey	0.50 0.98	Fair Wetness depth Low strength Shrink-swell	0.04 0.22 0.87	Fair Wetness depth Too clayey	0.04 0.64
3288A: Petrolia-----	Fair Organic matter content low Too clayey	0.68 0.98	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.87	Poor Wetness depth Too clayey	0.00 0.67
3288L: Petroila-----	Fair Organic matter content low Too clayey	0.68 0.98	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.87	Poor Wetness depth Too clayey	0.00 0.67
3331A: Haymond-----	Fair Water erosion	0.68	Good		Good	

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3331L: Haymond-----	Fair Water erosion	0.68	Good		Good	
3333A: Wakeland-----	Fair Organic matter content low Water erosion	0.50 0.68	Fair Wetness depth	0.04	Fair Wetness depth	0.04
3333L: Wakeland-----	Fair Organic matter content low Water erosion	0.50 0.68	Fair Wetness depth	0.04	Fair Wetness depth	0.04
3334A: Birds-----	Fair Water erosion	0.68	Poor Wetness depth Low strength	0.00 0.00	Poor Wetness depth	0.00
3334L: Birds-----	Fair Water erosion	0.68	Poor Wetness depth Low strength	0.00 0.00	Poor Wetness depth	0.00
3382A: Belknap-----	Fair Too acid Organic matter content low Water erosion	0.50 0.50 0.68	Poor Low strength Wetness depth	0.00 0.04	Fair Wetness depth Too acid	0.04 0.95
3420A: Piopolis-----	Fair Too acid Too clayey	0.50 0.92	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.87	Poor Wetness depth Too clayey Too acid	0.00 0.72 0.88
3422A: Cape-----	Poor Too clayey Too acid Organic matter content low	0.00 0.50 0.50	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.28	Poor Wetness depth Too clayey Too acid	0.00 0.00 0.59
3422A+: Cape-----	Poor Too clayey Too acid Organic matter content low Water erosion	0.00 0.50 0.50 0.90	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.38	Poor Wetness depth Too clayey Too acid	0.00 0.00 0.59
3426A: Karnak-----	Poor Too clayey Organic matter content low Too acid	0.00 0.12 0.84	Poor Wetness depth Shrink-swell	0.00 0.12	Poor Too clayey Wetness depth	0.00 0.00

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3426A+: Karnak-----	Poor Too clayey Organic matter content low Too acid Water erosion	0.00 0.12 0.84 0.90	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.20	Poor Too clayey Wetness depth	0.00 0.00
3426L: Karnak-----	Poor Too clayey Organic matter content low Too acid	0.00 0.12 0.84	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.12	Poor Too clayey Wetness depth	0.00 0.00
3449L: Armiesburg-----	Fair Organic matter content low Too clayey	0.88 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Too clayey	0.66
Sarpy-----	Poor Too sandy Wind erosion Organic matter content low Droughty	0.00 0.00 0.12 0.98	Good		Poor Too sandy	0.00
3456BL: Ware-----	Fair Organic matter content low	0.24	Good		Good	
3597L: Armiesburg-----	Fair Organic matter content low Too clayey	0.88 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Too clayey	0.66
5079B2: Menfro-----	Fair Organic matter content low Water erosion Too acid	0.12 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Good	
5079C3: Menfro-----	Fair Organic matter content low Water erosion Too acid	0.12 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.89	Good	
5079D3: Menfro-----	Fair Organic matter content low Water erosion Too acid	0.12 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.89	Fair Slope	0.04

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7084A: Okaw-----	Poor Too clayey Organic matter content low Too acid Water erosion	0.00 0.12 0.68 0.90	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.25	Poor Wetness depth Too clayey	0.00 0.00
7122B: Colp-----	Fair Too clayey Organic matter content low Water erosion Too acid	0.02 0.12 0.68 0.97	Poor Low strength Shrink-swell	0.00 0.17	Fair Too clayey	0.01
7122C2: Colp-----	Poor Too clayey Organic matter content low Too acid Water erosion	0.00 0.12 0.54 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Too clayey Too acid	0.00 0.98
7122D2: Colp-----	Poor Too clayey Organic matter content low Too acid Water erosion	0.00 0.12 0.54 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Too clayey Slope Too acid	0.00 0.04 0.98
7131A: Alvin-----	Fair Organic matter content low Too acid	0.12 0.88	Good		Good	
7131B: Alvin-----	Fair Organic matter content low Too acid	0.12 0.88	Good		Good	
7131C: Alvin-----	Fair Organic matter content low Too acid	0.12 0.88	Good		Good	
7131C2: Alvin-----	Fair Organic matter content low Too acid	0.12 0.88	Good		Good	
7131D2: Alvin-----	Fair Organic matter content low Too acid	0.12 0.88	Good		Fair Slope	0.04

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7338A: Hurst-----	Fair		Poor		Fair	
	Too clayey	0.08	Low strength	0.00	Too clayey	0.05
	Organic matter content low	0.12	Shrink-swell	0.17	Wetness depth	0.50
	Too acid	0.20	Wetness depth	0.50		
	Water erosion	0.90				
7338B: Hurst-----	Fair		Poor		Fair	
	Too clayey	0.08	Low strength	0.00	Too clayey	0.05
	Organic matter content low	0.12	Shrink-swell	0.17	Wetness depth	0.50
	Too acid	0.20	Wetness depth	0.50		
	Water erosion	0.90				
7401A: Okaw-----	Poor		Poor		Poor	
	Too clayey	0.00	Wetness depth	0.00	Wetness depth	0.00
	Organic matter content low	0.12	Low strength	0.00	Too clayey	0.00
	Water erosion	0.68	Shrink-swell	0.34		
	Too acid	0.68				
7460A: Ginat-----	Fair		Poor		Poor	
	Too acid	0.32	Wetness depth	0.00	Wetness depth	0.00
	Water erosion	0.90	Low strength	0.00		
7462A: Sciotoville-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Wetness depth	0.76	Wetness depth	0.76
	Too acid	0.32			Too acid	0.88
	Water erosion	0.99			Hard to reclaim (rock fragments)	0.95
7462B: Sciotoville-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Wetness depth	0.76	Wetness depth	0.76
	Too acid	0.32			Too acid	0.88
	Water erosion	0.99			Hard to reclaim (rock fragments)	0.95
7462C2: Sciotoville-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Wetness depth	0.76	Wetness depth	0.76
	Too acid	0.32			Hard to reclaim (rock fragments)	0.95
	Water erosion	0.99			Too acid	0.98
7462C3: Sciotoville-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Wetness depth	0.76	Wetness depth	0.76
	Too acid	0.32			Hard to reclaim (rock fragments)	0.95
	Water erosion	0.99			Too acid	0.98

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7462D2: Sciotoville-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Wetness depth	0.76	Slope	0.04
	Too acid	0.32			Wetness depth	0.76
	Water erosion	0.99			Hard to reclaim (rock fragments)	0.95
					Too acid	0.98
7462D3: Sciotoville-----	Fair		Fair		Fair	
	Organic matter content low	0.12	Wetness depth	0.76	Slope	0.04
	Too acid	0.32			Wetness depth	0.76
	Water erosion	0.99			Hard to reclaim (rock fragments)	0.95
					Too acid	0.98
7463A: Wheeling-----	Fair		Good		Poor	
	Organic matter content low	0.12			Hard to reclaim (rock fragments)	0.00
	Too acid	0.74			Rock fragments	0.88
7463B: Wheeling-----	Fair		Good		Poor	
	Organic matter content low	0.12			Hard to reclaim (rock fragments)	0.00
	Too acid	0.74			Rock fragments	0.88
7463C2: Wheeling-----	Fair		Good		Poor	
	Organic matter content low	0.12			Hard to reclaim (rock fragments)	0.00
	Too acid	0.74			Rock fragments	0.88
7463D3: Wheeling-----	Fair		Good		Poor	
	Organic matter content low	0.12			Hard to reclaim (rock fragments)	0.00
	Too acid	0.74			Slope	0.04
					Rock fragments	0.88
7711A: Hatfield-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Wetness depth	0.00	Wetness depth	0.00
	Too acid	0.32	Low strength	0.00	Too acid	0.88
	Water erosion	0.90				
7711B: Hatfield-----	Fair		Poor		Poor	
	Organic matter content low	0.12	Wetness depth	0.00	Wetness depth	0.00
	Too acid	0.32	Low strength	0.00	Too acid	0.88
	Water erosion	0.90				
8070A: Beaucoup-----	Fair		Poor		Poor	
	Too clayey	0.98	Wetness depth	0.00	Wetness depth	0.00
			Low strength	0.22	Too clayey	0.76
			Shrink-swell	0.87		

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8071A: Darwin-----	Poor Too clayey	0.00	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.00	Poor Too clayey Wetness depth	0.00 0.00
8072A: Sharon-----	Fair Organic matter content low Too acid Water erosion	0.24 0.50 0.68	Good		Fair Too acid	0.88
8085A: Jacob-----	Poor Too clayey Too acid	0.00 0.12	Poor Wetness depth Shrink-swell Low strength	0.00 0.00 0.00	Poor Too clayey Wetness depth Too acid	0.00 0.00 0.59
8108A: Bonnie-----	Fair Too acid Organic matter content low Water erosion	0.50 0.50 0.68	Poor Wetness depth Low strength	0.00 0.00	Poor Wetness depth Too acid	0.00 0.88
8109A: Raccoon-----	Fair Organic matter content low Too acid Water erosion	0.12 0.32 0.68	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.99	Poor Wetness depth	0.00
8162A: Gorham-----	Fair Too clayey Organic matter content low	0.50 0.68	Poor Wetness depth Shrink-swell	0.00 0.92	Poor Wetness depth Too clayey	0.00 0.34
8178A: Ruark-----	Fair Organic matter content low Too acid	0.12 0.54	Poor Wetness depth	0.00	Poor Wetness depth Too acid	0.00 0.98
8180A: Dupo-----	Fair Water erosion Organic matter content low	0.68 0.68	Poor Low strength Wetness depth Shrink-swell	0.00 0.03 0.61	Fair Wetness depth	0.03
8184A: Roby-----	Fair Organic matter content low Too acid	0.18 0.54	Fair Wetness depth	0.53	Fair Wetness depth	0.53
8184B: Roby-----	Fair Organic matter content low Too acid	0.18 0.54	Fair Wetness depth	0.53	Fair Wetness depth	0.53

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8284A: Tice-----	Fair		Fair		Fair	
	Organic matter content low	0.50	Wetness depth	0.04	Wetness depth	0.04
	Too clayey	0.98	Low strength	0.22	Too clayey	0.64
			Shrink-swell	0.87		
8288A: Petrolia-----	Fair		Poor		Poor	
	Organic matter content low	0.68	Wetness depth	0.00	Wetness depth	0.00
	Too clayey	0.98	Low strength	0.00	Too clayey	0.67
			Shrink-swell	0.87		
8331A: Haymond-----	Fair		Good		Good	
	Water erosion	0.68				
8333A: Wakeland-----	Fair		Fair		Fair	
	Organic matter content low	0.50	Wetness depth	0.04	Wetness depth	0.04
	Water erosion	0.68				
8334A: Birds-----	Fair		Poor		Poor	
	Water erosion	0.68	Wetness depth	0.00	Wetness depth	0.00
			Low strength	0.00		
8382A: Belknap-----	Fair		Poor		Fair	
	Too acid	0.50	Low strength	0.00	Wetness depth	0.04
	Organic matter content low	0.50	Wetness depth	0.04	Too acid	0.95
	Water erosion	0.68				
8420A: Piopolis-----	Fair		Poor		Poor	
	Too acid	0.50	Wetness depth	0.00	Wetness depth	0.00
	Too clayey	0.92	Low strength	0.00	Too clayey	0.72
			Shrink-swell	0.87	Too acid	0.88
8422A: Cape-----	Poor		Poor		Poor	
	Too clayey	0.00	Wetness depth	0.00	Wetness depth	0.00
	Too acid	0.50	Low strength	0.00	Too clayey	0.00
	Organic matter content low	0.50	Shrink-swell	0.28	Too acid	0.59
8422A+: Cape-----	Poor		Poor		Poor	
	Too clayey	0.00	Wetness depth	0.00	Wetness depth	0.00
	Too acid	0.50	Low strength	0.00	Too clayey	0.00
	Organic matter content low	0.50	Shrink-swell	0.38	Too acid	0.59
	Water erosion	0.90				
8426A: Karnak-----	Poor		Poor		Poor	
	Too clayey	0.00	Wetness depth	0.00	Too clayey	0.00
	Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.00
	Too acid	0.84	Shrink-swell	0.12		

Soil Survey of Pulaski County, Illinois

Table 17.—Construction Materials, Part II—Continued

Map symbol and soil name	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8426A+: Karnak-----	Poor Too clayey Organic matter content low Too acid	0.00 0.12 0.84	Poor Wetness depth Low strength Shrink-swell	0.00 0.00 0.20	Poor Too clayey Wetness depth	0.00 0.00
8597A: Armiesburg-----	Fair Organic matter content low Too clayey	0.88 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Too clayey	0.66
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Somewhat limited Seepage Slope	0.72 0.08	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
79C: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
79C2: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.04	Very limited Depth to water	1.00
79C3: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
79D: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
79D2: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.04	Very limited Depth to water	1.00
79D3: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
79E: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
79E2: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.04	Very limited Depth to water	1.00
79E3: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
79F: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.03	Very limited Depth to water	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164A: Stoy-----	Not limited		Very limited Depth to saturated zone Piping	1.00 0.01	Very limited Depth to water	1.00
164B: Stoy-----	Somewhat limited Slope	0.08	Very limited Depth to saturated zone Piping	1.00 0.01	Very limited Depth to water	1.00
165A: Weir-----	Not limited		Very limited Depth to saturated zone Ponding Piping	1.00 1.00 0.61	Very limited Depth to water	1.00
175B: Lamont-----	Very limited Seepage Slope	1.00 0.08	Somewhat limited Seepage	0.04	Very limited Depth to water	1.00
214B: Hosmer-----	Somewhat limited Depth to cemented pan Seepage Slope	0.91 0.72 0.08	Very limited Piping Thin layer Depth to saturated zone	1.00 0.91 0.84	Very limited Depth to water	1.00
214C: Hosmer-----	Very limited Slope Depth to cemented pan Seepage	1.00 0.91 0.72	Very limited Piping Thin layer Depth to saturated zone	1.00 0.91 0.84	Very limited Depth to water	1.00
214C2: Hosmer-----	Very limited Slope Depth to cemented pan Seepage	1.00 0.91 0.72	Very limited Piping Thin layer Depth to saturated zone	1.00 0.91 0.84	Very limited Depth to water	1.00
214C3: Hosmer-----	Very limited Slope Depth to cemented pan Seepage	1.00 0.91 0.72	Very limited Piping Thin layer Depth to saturated zone	1.00 0.91 0.84	Very limited Depth to water	1.00
214D2: Hosmer-----	Very limited Slope Depth to cemented pan Seepage	1.00 0.97 0.72	Very limited Piping Thin layer Depth to saturated zone	1.00 0.97 0.84	Very limited Depth to water	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
214D3: Hosmer-----	Very limited Slope Depth to cemented pan Seepage	1.00 0.97 0.72	Very limited Piping Thin layer Depth to saturated zone	1.00 0.97 0.84	Very limited Depth to water	1.00
216D2: Stookey-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.94	Very limited Depth to water	1.00
216E: Stookey-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.94	Very limited Depth to water	1.00
216E2: Stookey-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.94	Very limited Depth to water	1.00
216E3: Stookey-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.94	Very limited Depth to water	1.00
216F: Stookey-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.94	Very limited Depth to water	1.00
216G: Stookey-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.94	Very limited Depth to water	1.00
308B: Alford-----	Somewhat limited Seepage Slope	0.72 0.08	Very limited Piping	1.00	Very limited Depth to water	1.00
308C: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
308C2: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
308C3: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
308D: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308D2: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
308D3: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
308E: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
308E2: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
308E3: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
308F: Alford-----	Very limited Slope Seepage	1.00 0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
453C: Muren-----	Very limited Slope Seepage	1.00 0.72	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Cutbanks cave Slow refill	0.50 0.28
453C3: Muren-----	Very limited Slope Seepage	1.00 0.72	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Cutbanks cave Slow refill	0.50 0.28
453D2: Muren-----	Very limited Slope Seepage	1.00 0.72	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Cutbanks cave Slow refill	0.50 0.28
453D3: Muren-----	Very limited Slope Seepage	1.00 0.72	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Cutbanks cave Slow refill	0.50 0.28
477B: Winfield-----	Somewhat limited Seepage Slope	0.72 0.08	Somewhat limited Depth to saturated zone Piping	0.68 0.08	Somewhat limited Slow refill Depth to saturated zone Cutbanks cave	0.28 0.14 0.10

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
477C2: Winfield-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Depth to saturated zone Piping	0.68 0.10	Somewhat limited Slow refill Depth to saturated zone Cutbanks cave	0.28 0.14 0.10
477C3: Winfield-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Depth to saturated zone Piping	0.68 0.10	Somewhat limited Slow refill Depth to saturated zone Cutbanks cave	0.28 0.14 0.10
477D2: Winfield-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Depth to saturated zone Piping	0.68 0.10	Somewhat limited Slow refill Depth to saturated zone Cutbanks cave	0.28 0.14 0.10
477D3: Winfield-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Depth to saturated zone Piping	0.68 0.10	Somewhat limited Slow refill Depth to saturated zone Cutbanks cave	0.28 0.14 0.10
694D2: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.04	Very limited Depth to water	1.00
Baxter-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Hard to pack	0.10	Very limited Depth to water	1.00
694F: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.03	Very limited Depth to water	1.00
Baxter-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Hard to pack	0.06	Very limited Depth to water	1.00
717F: Stookey-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.94	Very limited Depth to water	1.00
Clarksville-----	Very limited Seepage Slope	1.00 1.00	Not limited		Very limited Depth to water	1.00
717G: Clarksville-----	Very limited Seepage Slope	1.00 1.00	Not limited		Very limited Depth to water	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
717G: Stoockey-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.94	Very limited Depth to water	1.00
801B: Orthents-----	Somewhat limited Seepage	0.54	Somewhat limited Piping	0.50	Very limited Depth to water	1.00
802D: Orthents-----	Very limited Slope Seepage	1.00 0.04	Somewhat limited Piping	0.50	Very limited Depth to water	1.00
864: Pits, quarries-----	Not rated		Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.98	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
Petrolia-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.13	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
1845A: Darwin-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.97	Very limited Slow refill Cutbanks cave	1.00 0.10
Jacob-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.97	Very limited Depth to water	1.00
1846A: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.70	Very limited Slow refill Cutbanks cave	1.00 0.10
Cape-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.82	Very limited Slow refill Cutbanks cave	1.00 0.10

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3070A: Beaucoup-----	Somewhat limited Seepage	0.72	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.10	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
3070L: Beaucoup-----	Somewhat limited Seepage	0.72	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.10	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
3071A: Darwin-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.97	Very limited Slow refill Cutbanks cave	1.00 0.10
3072A: Sharon-----	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Somewhat limited Depth to saturated zone Slow refill Cutbanks cave	0.81 0.28 0.10
3108A: Bonnie-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.98	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
3162L: Gorham-----	Very limited Seepage	1.00	Very limited Ponding Depth to saturated zone Piping Seepage	1.00 1.00 0.56 0.28	Very limited Cutbanks cave	1.00
3180A: Dupo-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Hard to pack	1.00 0.32	Very limited Depth to water	1.00
3284A: Tice-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
3284L: Tice-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3288A: Petrolia-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.13	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
3288L: Petrolia-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.13	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
3331A: Haymond-----	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
3331L: Haymond-----	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
3333A: Wakeland-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
3333L: Wakeland-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
3334A: Birds-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.95	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
3334L: Birds-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.95	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
3382A: Belknap-----	Somewhat limited Seepage	0.54	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.46 0.10
3420A: Piopolis-----	Not limited		Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Slow refill Cutbanks cave	1.00 0.10

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3422A: Cape-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.82	Very limited Slow refill Cutbanks cave	1.00 0.10
3422A+: Cape-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.60	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
3426A: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.70	Very limited Slow refill Cutbanks cave	1.00 0.10
3426A+: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.36	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
3426L: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.70	Very limited Slow refill Cutbanks cave	1.00 0.10
3449L: Armiesburg-----	Somewhat limited Seepage	0.72	Not limited		Very limited Depth to water	1.00
Sarpy-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.51	Very limited Depth to water	1.00
3456BL: Ware-----	Very limited Seepage Slope	1.00 0.08	Not limited		Very limited Depth to water	1.00
3597L: Armiesburg-----	Somewhat limited Seepage	0.72	Not limited		Very limited Depth to water	1.00
5079B2: Menfro-----	Somewhat limited Seepage Slope	0.72 0.08	Somewhat limited Piping	0.04	Very limited Depth to water	1.00
5079C3: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.05	Very limited Depth to water	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
5079D3: Menfro-----	Very limited Slope Seepage	1.00 0.72	Somewhat limited Piping	0.05	Very limited Depth to water	1.00
7084A: Okaw-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.66	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
7122B: Colp-----	Somewhat limited Slope	0.08	Somewhat limited Hard to pack Depth to saturated zone	0.66 0.43	Very limited Slow refill Depth to saturated zone Cutbanks cave	1.00 0.25 0.10
7122C2: Colp-----	Somewhat limited Slope	0.92	Somewhat limited Depth to saturated zone	0.43	Very limited Slow refill Depth to saturated zone Cutbanks cave	1.00 0.25 0.10
7122D2: Colp-----	Very limited Slope	1.00	Somewhat limited Depth to saturated zone	0.43	Very limited Slow refill Depth to saturated zone Cutbanks cave	1.00 0.25 0.10
7131A: Alvin-----	Very limited Seepage	1.00	Somewhat limited Seepage	0.25	Very limited Depth to water	1.00
7131B: Alvin-----	Very limited Seepage Slope	1.00 0.08	Somewhat limited Seepage	0.25	Very limited Depth to water	1.00
7131C: Alvin-----	Very limited Seepage Slope	1.00 1.00	Somewhat limited Seepage	0.25	Very limited Depth to water	1.00
7131C2: Alvin-----	Very limited Seepage Slope	1.00 1.00	Somewhat limited Seepage	0.25	Very limited Depth to water	1.00
7131D2: Alvin-----	Very limited Seepage Slope	1.00 1.00	Somewhat limited Seepage	0.25	Very limited Depth to water	1.00
7338A: Hurst-----	Not limited		Very limited Depth to saturated zone	1.00	Very limited Slow refill Cutbanks cave	1.00 0.10

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7338B: Hurst-----	Somewhat limited Slope	0.08	Very limited Depth to saturated zone	1.00	Very limited Slow refill Cutbanks cave	1.00 0.10
7401A: Okaw-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.68	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
7460A: Ginat-----	Somewhat limited Seepage	0.72	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.07	Very limited Depth to water	1.00
7462A: Sciotoville-----	Very limited Seepage	1.00	Very limited Piping Depth to saturated zone	1.00 0.95	Very limited Depth to water	1.00
7462B: Sciotoville-----	Very limited Seepage Slope	1.00 0.08	Very limited Piping Depth to saturated zone	1.00 0.95	Very limited Depth to water	1.00
7462C2: Sciotoville-----	Very limited Seepage Slope	1.00 1.00	Very limited Piping Depth to saturated zone	1.00 0.95	Very limited Depth to water	1.00
7462C3: Sciotoville-----	Very limited Seepage Slope	1.00 1.00	Very limited Piping Depth to saturated zone	1.00 0.95	Very limited Depth to water	1.00
7462D2: Sciotoville-----	Very limited Seepage Slope	1.00 1.00	Very limited Piping Depth to saturated zone	1.00 0.95	Very limited Depth to water	1.00
7462D3: Sciotoville-----	Very limited Seepage Slope	1.00 1.00	Very limited Piping Depth to saturated zone	1.00 0.95	Very limited Depth to water	1.00
7463A: Wheeling-----	Very limited Seepage	1.00	Not limited		Very limited Depth to water	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7463B: Wheeling-----	Very limited Seepage Slope	1.00 0.08	Not limited		Very limited Depth to water	1.00
7463C2: Wheeling-----	Very limited Seepage Slope	1.00 1.00	Not limited		Very limited Depth to water	1.00
7463D3: Wheeling-----	Very limited Seepage Slope	1.00 1.00	Not limited		Very limited Depth to water	1.00
7711A: Hatfield-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 0.45	Very limited Depth to water	1.00
7711B: Hatfield-----	Somewhat limited Seepage Slope	0.72 0.08	Very limited Depth to saturated zone Piping	1.00 0.45	Very limited Depth to water	1.00
8070A: Beaucoup-----	Somewhat limited Seepage	0.72	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.10	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
8071A: Darwin-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.97	Very limited Slow refill Cutbanks cave	1.00 0.10
8072A: Sharon-----	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Somewhat limited Depth to saturated zone Slow refill Cutbanks cave	0.81 0.28 0.10
8085A: Jacob-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.97	Very limited Depth to water	1.00
8108A: Bonnie-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.98	Somewhat limited Slow refill Cutbanks cave	0.28 0.10

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8109A: Raccoon-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.51	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
8162A: Gorham-----	Very limited Seepage	1.00	Very limited Ponding Depth to saturated zone Piping Seepage	1.00 1.00 0.56 0.28	Very limited Cutbanks cave	1.00
8178A: Ruark-----	Somewhat limited Seepage	0.72	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
8180A: Dupo-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Hard to pack	1.00 1.00 0.32	Very limited Depth to water	1.00
8184A: Roby-----	Very limited Seepage	1.00	Very limited Depth to saturated zone Seepage	1.00 0.01	Very limited Cutbanks cave Depth to saturated zone	1.00 0.01
8184B: Roby-----	Very limited Seepage Slope	1.00 0.08	Very limited Depth to saturated zone Seepage	1.00 1.00 0.01	Very limited Cutbanks cave Depth to saturated zone	1.00 0.01
8284A: Tice-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
8288A: Petrolia-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.13	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
8331A: Haymond-----	Somewhat limited Seepage	0.72	Very limited Piping	1.00	Very limited Depth to water	1.00
8333A: Wakeland-----	Somewhat limited Seepage	0.72	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.28 0.10

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part I—Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8334A: Birds-----	Somewhat limited Seepage	0.04	Very limited Ponding Depth to saturated zone Piping	1.00 1.00 0.95	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
8382A: Belknap-----	Somewhat limited Seepage	0.54	Very limited Depth to saturated zone Piping	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.46 0.10
8420A: Piopolis-----	Not limited		Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Slow refill Cutbanks cave	1.00 0.10
8422A: Cape-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.82	Very limited Slow refill Cutbanks cave	1.00 0.10
8422A+: Cape-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.60	Somewhat limited Slow refill Cutbanks cave	0.28 0.10
8426A: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.70	Very limited Slow refill Cutbanks cave	1.00 0.10
8426A+: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Hard to pack	1.00 1.00 0.36	Somewhat limited Slow refill Cutbanks cave	0.96 0.10
8597A: Armiesburg-----	Somewhat limited Seepage	0.72	Not limited		Very limited Depth to water	1.00
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Somewhat limited Slope	0.37	Very limited Water erosion Slope	1.00 0.37	Not limited	
79C: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Not limited	
79C2: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Not limited	
79C3: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Not limited	
79D: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
79D2: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
79D3: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
79E: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
79E2: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
79E3: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
79F: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164A: Stoy-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
164B: Stoy-----	Somewhat limited Slope	0.37	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 0.37	Very limited Depth to saturated zone	1.00
165A: Weir-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
175B: Lamont-----	Somewhat limited Slope	0.37	Somewhat limited Slope Water erosion	0.37 0.12	Very limited Cutbanks cave	1.00
214B: Hosmer-----	Somewhat limited Slope	0.37	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 0.37	Somewhat limited Depth to saturated zone	0.99
214C: Hosmer-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 1.00	Somewhat limited Depth to saturated zone	0.99
214C2: Hosmer-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 1.00	Somewhat limited Depth to saturated zone	0.99
214C3: Hosmer-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 1.00	Somewhat limited Depth to saturated zone	0.99
214D2: Hosmer-----	Very limited Slope	1.00	Very limited Water erosion Slope Depth to saturated zone	1.00 1.00 1.00	Somewhat limited Depth to saturated zone Slope	0.99 0.96

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
214D3: Hosmer-----	Very limited Slope	1.00	Very limited		Somewhat limited Depth to saturated zone	0.99
			Water erosion Slope	1.00		
			Depth to saturated zone	1.00	Slope	0.96
216D2: Stookey-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
216E: Stookey-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
216E2: Stookey-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
216E3: Stookey-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
216F: Stookey-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
216G: Stookey-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
308B: Alford-----	Somewhat limited Slope	0.37	Very limited Water erosion Slope	1.00 0.37	Not limited	
308C: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Not limited	
308C2: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Not limited	
308C3: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Not limited	

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308D: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
308D2: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
308D3: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
308E: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
308E2: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
308E3: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
308F: Alford-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
453C: Muren-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 1.00	Very limited Depth to saturated zone	1.00
453C3: Muren-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 1.00	Very limited Depth to saturated zone	1.00
453D2: Muren-----	Very limited Slope	1.00	Very limited Water erosion Slope Depth to saturated zone	1.00 1.00 1.00	Very limited Depth to saturated zone Slope	1.00 0.96

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
453D3: Muren-----	Very limited Slope	1.00	Very limited Water erosion Slope Depth to saturated zone	1.00 1.00 1.00	Very limited Depth to saturated zone Slope	1.00 0.96
477B: Winfield-----	Somewhat limited Slope	0.37	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 0.37	Somewhat limited Depth to saturated zone	0.99
477C2: Winfield-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 1.00	Somewhat limited Depth to saturated zone	0.99
477C3: Winfield-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone	0.99
477D2: Winfield-----	Very limited Slope	1.00	Very limited Water erosion Slope Depth to saturated zone	1.00 1.00 1.00	Somewhat limited Depth to saturated zone Slope	0.99 0.96
477D3: Winfield-----	Very limited Slope	1.00	Very limited Water erosion Slope Depth to saturated zone	1.00 1.00 1.00	Somewhat limited Depth to saturated zone Slope	0.99 0.96
694D2: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
Baxter-----	Very limited Slope	1.00	Very limited Slope Water erosion	1.00 0.50	Very limited Cutbanks cave Slope Too clayey	1.00 0.96 0.92
694F: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
Baxter-----	Very limited Slope	1.00	Very limited Slope Water erosion	1.00 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 1.00 0.92

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
717F: Stookey-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
Clarksville-----	Very limited Slope Content of large stones	1.00 0.92	Very limited Slope Content of large stones Water erosion	1.00 0.92 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 1.00 0.01
717G: Clarksville-----	Very limited Slope Content of large stones	1.00 0.92	Very limited Slope Content of large stones Water erosion	1.00 0.92 0.50	Very limited Slope Cutbanks cave Too clayey	1.00 1.00 0.01
Stookey-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Very limited Slope	1.00
801B: Orthents-----	Somewhat limited Slope	0.16	Very limited Water erosion Slope	1.00 0.16	Not limited	
802D: Orthents-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Dense layer Slope	0.50 0.37
864: Pits, quarries-----	Not rated		Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
Petrolia-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
1845A: Darwin-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.12	Very limited Ponding Depth to saturated zone Flooding Too clayey	1.00 1.00 0.80 0.32

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1845A: Jacob-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 1.00 0.80
1846A: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 0.95 0.80
Cape-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding Too clayey	1.00 1.00 0.80 0.02
3070A: Beaucoup-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
3070L: Beaucoup-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
3071A: Darwin-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.12	Very limited Ponding Depth to saturated zone Flooding Too clayey	1.00 1.00 0.80 0.32
3072A: Sharon-----	Not limited		Very limited Water erosion	1.00	Somewhat limited Flooding Depth to saturated zone	0.80 0.60
3108A: Bonnie-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3162L: Gorham-----	Somewhat limited Slope	0.04	Very limited Ponding Depth to saturated zone Water erosion Slope	1.00 1.00 0.50 0.04	Very limited Ponding Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 1.00 0.80
3180A: Dupo-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey	1.00 0.80 0.24
3284A: Tice-----	Not limited		Very limited Depth to saturated zone Water erosion	1.00 0.88	Very limited Depth to saturated zone Flooding	1.00 0.80
3284L: Tice-----	Not limited		Very limited Depth to saturated zone Water erosion	1.00 0.88	Very limited Depth to saturated zone Flooding	1.00 0.80
3288A: Petrolia-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
3288L: Petrolia-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
3331A: Haymond-----	Somewhat limited Slope	0.04	Very limited Water erosion Slope	1.00 0.04	Somewhat limited Flooding	0.80
3331L: Haymond-----	Somewhat limited Slope	0.04	Very limited Water erosion Slope	1.00 0.04	Somewhat limited Flooding	0.80
3333A: Wakeland-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.80

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3333L: Wakeland-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.80
3334A: Birds-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
3334L: Birds-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
3382A: Belknap-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.80
3420A: Piopolis-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80
3422A: Cape-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding Too clayey	1.00 1.00 0.80 0.02
3422A+: Cape-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Too clayey	1.00 1.00 0.80 0.02
3426A: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 0.95 0.80

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3426A+: Karnak-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 0.95 0.80
3426L: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 0.95 0.80
3449L: Armiesburg-----	Not limited		Somewhat limited Water erosion	0.88	Somewhat limited Flooding	0.80
Sarpy-----	Not limited		Very limited Too sandy	1.00	Very limited Cutbanks cave Flooding	1.00 0.80
3456BL: Ware-----	Somewhat limited Slope	0.37	Somewhat limited Water erosion Slope	0.88 0.37	Somewhat limited Flooding	0.80
3597L: Armiesburg-----	Not limited		Somewhat limited Water erosion	0.88	Somewhat limited Flooding	0.80
5079B2: Menfro-----	Somewhat limited Slope	0.37	Very limited Water erosion Slope	1.00 0.37	Not limited	
5079C3: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Not limited	
5079D3: Menfro-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope	0.96
7084A: Okaw-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 0.32
7122B: Colp-----	Somewhat limited Slope	0.37	Very limited Water erosion Slope	1.00 0.37	Somewhat limited Depth to saturated zone Too clayey	0.95 0.01

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7122C2: Colp-----	Somewhat limited Slope	0.96	Very limited Water erosion Slope	1.00 0.96	Somewhat limited Depth to saturated zone Too clayey	0.95 0.02
7122D2: Colp-----	Very limited Slope	1.00	Very limited Water erosion Slope	1.00 1.00	Somewhat limited Slope Depth to saturated zone Too clayey	0.96 0.95 0.02
7131A: Alvin-----	Not limited		Somewhat limited Water erosion	0.12	Very limited Cutbanks cave	1.00
7131B: Alvin-----	Somewhat limited Slope	0.37	Somewhat limited Slope Water erosion	0.37 0.12	Very limited Cutbanks cave	1.00
7131C: Alvin-----	Very limited Slope	1.00	Very limited Slope Water erosion	1.00 0.12	Very limited Cutbanks cave	1.00
7131C2: Alvin-----	Very limited Slope	1.00	Very limited Slope Water erosion	1.00 0.12	Very limited Cutbanks cave	1.00
7131D2: Alvin-----	Very limited Slope	1.00	Very limited Slope Water erosion	1.00 0.12	Very limited Cutbanks cave Slope	1.00 0.96
7338A: Hurst-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
7338B: Hurst-----	Somewhat limited Slope	0.37	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 0.37	Very limited Depth to saturated zone	1.00
7401A: Okaw-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 0.32

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7460A: Ginat-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
7462A: Sciotoville-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
7462B: Sciotoville-----	Somewhat limited Slope	0.37	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 0.37	Very limited Depth to saturated zone	1.00
7462C2: Sciotoville-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 1.00	Very limited Depth to saturated zone	1.00
7462C3: Sciotoville-----	Very limited Slope	1.00	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 1.00	Very limited Depth to saturated zone	1.00
7462D2: Sciotoville-----	Very limited Slope	1.00	Very limited Water erosion Slope Depth to saturated zone	1.00 1.00 1.00	Very limited Depth to saturated zone Slope	1.00 0.96
7462D3: Sciotoville-----	Very limited Slope	1.00	Very limited Water erosion Slope Depth to saturated zone	1.00 1.00 1.00	Very limited Depth to saturated zone Slope	1.00 0.96
7463A: Wheeling-----	Not limited		Somewhat limited Water erosion	0.88	Very limited Cutbanks cave	1.00
7463B: Wheeling-----	Somewhat limited Slope	0.37	Somewhat limited Water erosion Slope	0.88 0.37	Very limited Cutbanks cave	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7463C2: Wheeling-----	Very limited Slope	1.00	Very limited Slope Water erosion	1.00 0.88	Very limited Cutbanks cave	1.00
7463D3: Wheeling-----	Very limited Slope	1.00	Very limited Slope Water erosion	1.00 0.88	Very limited Cutbanks cave Slope	1.00 0.96
7711A: Hatfield-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone	1.00
7711B: Hatfield-----	Somewhat limited Slope	0.37	Very limited Water erosion Depth to saturated zone Slope	1.00 1.00 0.37	Very limited Depth to saturated zone	1.00
8070A: Beaucoup-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8071A: Darwin-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.12	Very limited Ponding Depth to saturated zone Flooding Too clayey	1.00 1.00 0.60 0.32
8072A: Sharon-----	Somewhat limited Slope	0.04	Very limited Water erosion Slope	1.00 0.04	Somewhat limited Flooding Depth to saturated zone	0.60 0.60
8085A: Jacob-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 1.00 0.60
8108A: Bonnie-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8109A: Raccoon-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8162A: Gorham-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 1.00 0.60
8178A: Ruark-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8180A: Dupo-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey	1.00 0.60 0.24
8184A: Roby-----	Not limited		Very limited Depth to saturated zone Water erosion	1.00 0.12	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60
8184B: Roby-----	Somewhat limited Slope	0.37	Very limited Depth to saturated zone Slope Water erosion	1.00 0.37 0.12	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60
8284A: Tice-----	Not limited		Very limited Depth to saturated zone Water erosion	1.00 0.88	Very limited Depth to saturated zone Flooding	1.00 0.60
8288A: Petrolia-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8331A: Haymond-----	Somewhat limited Slope	0.04	Very limited Water erosion Slope	1.00 0.04	Somewhat limited Flooding	0.60

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8333A: Wakeland-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
8334A: Birds-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8382A: Belknap-----	Not limited		Very limited Water erosion Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
8420A: Piopolis-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60
8422A: Cape-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Flooding Too clayey	1.00 1.00 0.60 0.02
8422A+: Cape-----	Not limited		Very limited Water erosion Ponding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding Too clayey	1.00 1.00 0.60 0.02
8426A: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 0.95 0.60
8426A+: Karnak-----	Not limited		Very limited Ponding Depth to saturated zone Water erosion	1.00 1.00 0.88	Very limited Ponding Depth to saturated zone Too clayey Flooding	1.00 1.00 0.95 0.60

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part II—Continued

Map symbol and soil name	Constructing grassed waterways and surface drains		Constructing terraces and diversions		Tile drains and underground outlets	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8597A: Armiesburg-----	Not limited		Somewhat limited Water erosion	0.88	Somewhat limited Flooding	0.60
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III

(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. See text for further explanation of ratings in this table)

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
79B: Menfro-----	Somewhat limited Too acid Slope	 0.08 0.08	Very limited Water erodibility	 1.00	Not limited	
79C: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Water erodibility Slope	 1.00 0.10	Not limited	
79C2: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Water erodibility Slope	 1.00 0.10	Not limited	
79C3: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Water erodibility Slope	 1.00 0.10	Not limited	
79D: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Water erodibility Slope	 1.00 0.98	Not limited	
79D2: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Water erodibility Slope	 1.00 0.98	Not limited	
79D3: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Water erodibility Slope	 1.00 0.98	Not limited	
79E: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Slope Water erodibility	 1.00 1.00	Not limited	
79E2: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Slope Water erodibility	 1.00 1.00	Not limited	
79E3: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Slope Water erodibility	 1.00 1.00	Not limited	
79F: Menfro-----	Very limited Slope Too acid	 1.00 0.08	Very limited Slope Water erodibility	 1.00 1.00	Not limited	

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
164A: Stoy-----	Very limited Percs slowly Depth to saturated zone Too acid	1.00 0.99 0.22	Somewhat limited Depth to saturated zone	0.97	Not limited	
164B: Stoy-----	Very limited Percs slowly Depth to saturated zone Too acid Slope	1.00 0.99 0.22 0.08	Very limited Water erodibility Depth to saturated zone	1.00 0.97	Not limited	
165A: Weir-----	Very limited Percs slowly Ponding Depth to saturated zone Too acid	1.00 1.00 1.00 0.32	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
175B: Lamont-----	Somewhat limited Too acid Slope	0.08 0.08	Somewhat limited Droughty	0.08	Not limited	
214B: Hosmer-----	Somewhat limited Depth to saturated zone Too acid Cemented pan Slope Droughty	0.84 0.78 0.65 0.08 0.01	Very limited Cemented pan Water erodibility Droughty	1.00 1.00 0.01	Somewhat limited Cemented pan	0.65
214C: Hosmer-----	Very limited Slope Depth to saturated zone Too acid Cemented pan	1.00 0.84 0.78 0.65	Very limited Cemented pan Water erodibility Slope Droughty	1.00 1.00 0.10 0.01	Somewhat limited Cemented pan	0.65
214C2: Hosmer-----	Very limited Slope Cemented pan Depth to saturated zone Too acid Droughty	1.00 0.86 0.84 0.78 0.18	Very limited Cemented pan Water erodibility Droughty Slope	1.00 1.00 0.35 0.10	Somewhat limited Cemented pan	0.86

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
214C3: Hosmer-----	Very limited Slope Cemented pan Depth to saturated zone Too acid Droughty	1.00 0.95 0.84 0.78 0.43	Very limited Cemented pan Water erodibility Droughty Slope	1.00 1.00 0.75 0.10	Somewhat limited Cemented pan	0.95
214D2: Hosmer-----	Very limited Slope Cemented pan Depth to saturated zone Too acid	1.00 0.86 0.84 0.78	Very limited Cemented pan Water erodibility Slope Droughty	1.00 1.00 0.98 0.35	Somewhat limited Cemented pan	0.86
214D3: Hosmer-----	Very limited Slope Cemented pan Depth to saturated zone Too acid	1.00 0.95 0.84 0.78	Very limited Cemented pan Water erodibility Slope Droughty	1.00 1.00 0.98 0.75	Somewhat limited Cemented pan	0.95
216D2: Stookey-----	Very limited Slope Too acid	1.00 0.32	Very limited Water erodibility Slope	1.00 0.98	Not limited	
216E: Stookey-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
216E2: Stookey-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
216E3: Stookey-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
216F: Stookey-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
216G: Stookey-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
308B: Alford-----	Somewhat limited Too acid Slope	0.32 0.08	Very limited Water erodibility	1.00	Not limited	

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
308C: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Water erodibility Slope	1.00 0.10	Not limited	
308C2: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Water erodibility Slope	1.00 0.10	Not limited	
308C3: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Water erodibility Slope	1.00 0.10	Not limited	
308D: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Water erodibility Slope	1.00 0.98	Not limited	
308D2: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Water erodibility Slope	1.00 0.98	Not limited	
308D3: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Water erodibility Slope	1.00 0.98	Not limited	
308E: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
308E2: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
308E3: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
308F: Alford-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
453C: Muren-----	Very limited Depth to saturated zone Slope Too acid	1.00 1.00 0.14	Very limited Water erodibility Slope	1.00 0.10	Very limited Wetness	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
453C3: Muren-----	Very limited Depth to saturated zone Slope Too acid	1.00 1.00 0.14	Very limited Water erodibility Slope	1.00 0.10	Very limited Wetness	1.00
453D2: Muren-----	Very limited Depth to saturated zone Slope Too acid	1.00 1.00 0.14	Very limited Water erodibility Slope	1.00 0.98	Very limited Wetness	1.00
453D3: Muren-----	Very limited Depth to saturated zone Slope Too acid	1.00 1.00 0.14	Very limited Water erodibility Slope	1.00 0.98	Very limited Wetness	1.00
477B: Winfield-----	Somewhat limited Depth to saturated zone Slope	0.68 0.08	Very limited Water erodibility	1.00	Not limited	
477C2: Winfield-----	Very limited Slope Depth to saturated zone	1.00 0.68	Very limited Water erodibility Slope	1.00 0.10	Not limited	
477C3: Winfield-----	Very limited Slope Depth to saturated zone	1.00 0.68	Very limited Water erodibility Slope	1.00 0.10	Not limited	
477D2: Winfield-----	Very limited Slope Depth to saturated zone	1.00 0.68	Very limited Water erodibility Slope	1.00 0.98	Not limited	
477D3: Winfield-----	Very limited Slope Depth to saturated zone	1.00 0.68	Very limited Water erodibility Slope	1.00 0.98	Not limited	
694D2: Menfro-----	Very limited Slope Too acid	1.00 0.08	Very limited Water erodibility Slope	1.00 0.98	Not limited	
Baxter-----	Very limited Slope Too acid	1.00 0.78	Somewhat limited Slope Droughty	0.98 0.09	Not limited	

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
694F: Menfro-----	Very limited Slope Too acid	1.00 0.08	Very limited Slope Water erodibility	1.00 1.00	Not limited	
Baxter-----	Very limited Slope Too acid	1.00 0.78	Very limited Slope Droughty	1.00 0.05	Not limited	
717F: Stookey-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
Clarksville-----	Very limited Slope Too acid	1.00 1.00	Very limited Slope Droughty	1.00 0.98	Not limited	
717G: Clarksville-----	Very limited Slope Too acid	1.00 1.00	Very limited Slope Droughty	1.00 0.98	Not limited	
Stookey-----	Very limited Slope Too acid	1.00 0.32	Very limited Slope Water erodibility	1.00 1.00	Not limited	
801B: Orthents-----	Somewhat limited Too acid	0.44	Very limited Water erodibility	1.00	Not limited	
802D: Orthents-----	Very limited Slope Percs slowly	1.00 0.31	Very limited Water erodibility Slope	1.00 0.60	Not limited	
864: Pits, quarries-----	Not rated		Not rated		Not rated	
865: Pits, gravel-----	Not rated		Not rated		Not rated	
1843A: Bonnie-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly Too acid	1.00 1.00 0.80 0.31 0.22	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
Petrolia-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.80 0.31	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1845A: Darwin-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding	1.00 1.00 1.00 0.80	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.32	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
Jacob-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.80 0.44	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.68	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
1846A: Karnak-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding Too acid	1.00 1.00 1.00 0.80 0.44	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.87	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
Cape-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.80 0.32	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.01	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3070A: Beaucoup-----	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3070L: Beaucoup-----	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3071A: Darwin-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding	1.00 1.00 1.00 0.80	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.32	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3072A: Sharon-----	Somewhat limited Flooding Too acid	0.80 0.78	Very limited Flooding	1.00	Very limited Flooding	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3108A: Bonnie-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly Too acid	1.00 1.00 0.80 0.31 0.22	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3162L: Gorham-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.80 0.31	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3180A: Dupo-----	Very limited Depth to saturated zone Percs slowly Flooding	1.00 1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Wetness	1.00 1.00
3284A: Tice-----	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Wetness	1.00 1.00
3284L: Tice-----	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Wetness	1.00 1.00
3288A: Petrolia-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.80 0.31	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3288L: Petrolia-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.80 0.31	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3331A: Haymond-----	Somewhat limited Flooding	0.80	Very limited Flooding	1.00	Very limited Flooding	1.00
3331L: Haymond-----	Somewhat limited Flooding	0.80	Very limited Flooding	1.00	Very limited Flooding	1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3333A: Wakeland-----	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Wetness	1.00 1.00
3333L: Wakeland-----	Very limited Depth to saturated zone Flooding	1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Wetness	1.00 1.00
3334A: Birds-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.80 0.31	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3334L: Birds-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.80 0.31	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3382A: Belknap-----	Very limited Depth to saturated zone Flooding Too acid	1.00 0.80 0.32	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Wetness	1.00 1.00
3420A: Piopolis-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding Too acid	1.00 1.00 1.00 0.80 0.44	Very limited Ponding Flooding Depth to saturated zone Surface percs slowly	1.00 1.00 1.00 1.00	Very limited Ponding Flooding Wetness Surface percs slowly	1.00 1.00 1.00 1.00
3422A: Cape-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.80 0.32	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.01	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3422A+: Cape-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.80 0.32	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00	Very limited Ponding Flooding Wetness	1.00 1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 18.--Water Management, Part III--Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3426A: Karnak-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding Too acid	1.00 1.00 1.00 0.80 0.44	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.87	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3426A+: Karnak-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding Too acid	1.00 1.00 1.00 0.80 0.44	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.87	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3426L: Karnak-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding Too acid	1.00 1.00 1.00 0.80 0.44	Very limited Ponding Flooding Depth to saturated zone Droughty	1.00 1.00 1.00 0.87	Very limited Ponding Flooding Wetness	1.00 1.00 1.00
3449L: Armiesburg-----	Somewhat limited Flooding	0.80	Very limited Flooding	1.00	Very limited Flooding	1.00
Sarpy-----	Somewhat limited Flooding Droughty	0.80 0.03	Very limited Flooding Wind erosion Droughty	1.00 1.00 1.00	Very limited Flooding	1.00
3456BL: Ware-----	Somewhat limited Flooding Slope	0.80 0.08	Very limited Flooding	1.00	Very limited Flooding	1.00
3597L: Armiesburg-----	Somewhat limited Flooding	0.80	Very limited Flooding	1.00	Very limited Flooding	1.00
5079B2: Menfro-----	Somewhat limited Too acid Slope	0.08 0.08	Very limited Water erodibility	1.00	Not limited	
5079C3: Menfro-----	Very limited Slope Too acid	1.00 0.08	Very limited Water erodibility Slope	1.00 0.10	Not limited	
5079D3: Menfro-----	Very limited Slope Too acid	1.00 0.08	Very limited Water erodibility Slope	1.00 0.98	Not limited	

Soil Survey of Pulaski County, Illinois

Table 18.--Water Management, Part III--Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7084A: Okaw-----	Very limited Percs slowly Ponding Depth to saturated zone Too acid	1.00 1.00 1.00 0.32	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
7122B: Colp-----	Very limited Percs slowly Depth to saturated zone Too acid Slope	1.00 0.44 0.08 0.08	Very limited Water erodibility	1.00	Not limited	
7122C2: Colp-----	Very limited Percs slowly Slope Depth to saturated zone	1.00 0.92 0.44	Very limited Water erodibility Slope	1.00 0.02	Not limited	
7122D2: Colp-----	Very limited Slope Percs slowly Depth to saturated zone	1.00 1.00 0.44	Very limited Water erodibility Slope	1.00 0.98	Not limited	
7131A: Alvin-----	Somewhat limited Too acid	0.32	Not limited		Not limited	
7131B: Alvin-----	Somewhat limited Too acid Slope	0.32 0.08	Not limited		Not limited	
7131C: Alvin-----	Very limited Slope Too acid	1.00 0.32	Somewhat limited Slope	0.10	Not limited	
7131C2: Alvin-----	Very limited Slope Too acid	1.00 0.32	Somewhat limited Slope	0.10	Not limited	
7131D2: Alvin-----	Very limited Slope Too acid	1.00 0.32	Somewhat limited Slope	0.98	Not limited	
7338A: Hurst-----	Very limited Percs slowly Depth to saturated zone Too acid	1.00 1.00 0.08	Very limited Depth to saturated zone	1.00	Not limited	

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7338B: Hurst-----	Very limited Percs slowly Depth to saturated zone Too acid Slope	1.00 1.00 0.08 0.08	Very limited Depth to saturated zone Water erodibility	1.00 1.00	Not limited	
7401A: Okaw-----	Very limited Percs slowly Ponding Depth to saturated zone Too acid	1.00 1.00 1.00 0.32	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
7460A: Ginat-----	Very limited Percs slowly Ponding Depth to saturated zone Too acid	1.00 1.00 1.00 0.22	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
7462A: Sciotoville-----	Somewhat limited Depth to saturated zone Percs slowly Too acid	0.95 0.61 0.44	Not limited		Not limited	
7462B: Sciotoville-----	Somewhat limited Depth to saturated zone Percs slowly Too acid Slope	0.95 0.61 0.44 0.08	Very limited Water erodibility	1.00	Not limited	
7462C2: Sciotoville-----	Very limited Slope Depth to saturated zone Percs slowly Too acid	1.00 0.95 0.61 0.44	Very limited Water erodibility Slope	1.00 0.10	Not limited	
7462C3: Sciotoville-----	Very limited Slope Depth to saturated zone Percs slowly Too acid Low adsorption	1.00 0.95 0.61 0.44 0.13	Very limited Water erodibility Slope	1.00 0.10	Not limited	

Soil Survey of Pulaski County, Illinois

Table 18.--Water Management, Part III--Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
7462D2: Sciotoville-----	Very limited Slope Depth to saturated zone Percs slowly Too acid	1.00 0.95 0.61 0.44	Very limited Water erodibility Slope	1.00 0.98	Not limited	
7462D3: Sciotoville-----	Very limited Slope Depth to saturated zone Percs slowly Too acid	1.00 0.95 0.61 0.44	Very limited Water erodibility Slope	1.00 0.98	Not limited	
7463A: Wheeling-----	Somewhat limited Too acid	0.44	Somewhat limited Droughty	0.41	Not limited	
7463B: Wheeling-----	Somewhat limited Too acid Slope	0.44 0.08	Very limited Water erodibility Droughty	1.00 0.41	Not limited	
7463C2: Wheeling-----	Very limited Slope Too acid	1.00 0.44	Very limited Water erodibility Droughty Slope	1.00 0.48 0.10	Not limited	
7463D3: Wheeling-----	Very limited Slope Too acid	1.00 0.44	Very limited Water erodibility Slope Droughty	1.00 0.98 0.54	Not limited	
7711A: Hatfield-----	Very limited Percs slowly Depth to saturated zone Too acid	1.00 1.00 0.22	Very limited Depth to saturated zone	1.00	Very limited Wetness	1.00
7711B: Hatfield-----	Very limited Percs slowly Depth to saturated zone Too acid Slope	1.00 1.00 0.22 0.08	Very limited Depth to saturated zone Water erodibility	1.00 1.00	Very limited Wetness	1.00
8070A: Beaucoup-----	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.60	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8071A: Darwin-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding	1.00 1.00 1.00 0.60	Very limited Ponding Depth to saturated zone Droughty	1.00 1.00 0.32	Very limited Ponding Wetness	1.00 1.00
8072A: Sharon-----	Somewhat limited Too acid Flooding	0.78 0.60	Not limited		Not limited	
8085A: Jacob-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.60 0.44	Very limited Ponding Depth to saturated zone Droughty	1.00 1.00 0.68	Very limited Ponding Wetness	1.00 1.00
8108A: Bonnie-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly Too acid	1.00 1.00 0.60 0.31 0.22	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
8109A: Raccoon-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding Too acid	1.00 1.00 1.00 0.60 0.22	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
8162A: Gorham-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.60 0.31	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
8178A: Ruark-----	Very limited Ponding Depth to saturated zone Flooding Too acid Percs slowly	1.00 1.00 0.60 0.32 0.31	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00

Soil Survey of Pulaski County, Illinois

Table 18.—Water Management, Part III—Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8180A: Dupo-----	Very limited Depth to saturated zone Percs slowly Flooding	1.00 1.00 0.60	Very limited Depth to saturated zone	1.00	Very limited Wetness	1.00
8184A: Roby-----	Somewhat limited Depth to saturated zone Flooding	0.99 0.60	Somewhat limited Depth to saturated zone Droughty	0.97 0.04	Not limited	
8184B: Roby-----	Somewhat limited Depth to saturated zone Flooding Slope	0.99 0.60 0.08	Somewhat limited Depth to saturated zone Droughty	0.97 0.04	Not limited	
8284A: Tice-----	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone	1.00	Very limited Wetness	1.00
8288A: Petrolia-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.60 0.31	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
8331A: Haymond-----	Somewhat limited Flooding	0.60	Not limited		Not limited	
8333A: Wakeland-----	Very limited Depth to saturated zone Flooding	1.00 0.60	Very limited Depth to saturated zone	1.00	Very limited Wetness	1.00
8334A: Birds-----	Very limited Ponding Depth to saturated zone Flooding Percs slowly	1.00 1.00 0.60 0.31	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
8382A: Belknap-----	Very limited Depth to saturated zone Flooding Too acid	1.00 0.60 0.32	Very limited Depth to saturated zone	1.00	Very limited Wetness	1.00

Soil Survey of Pulaski County, Illinois

Table 18.--Water Management, Part III--Continued

Map symbol and soil name	Irrigation all application methods		Sprinkler irrigation		Drip or trickle irrigation	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
8420A: Piopolis-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding Too acid	1.00 1.00 1.00 0.60 0.44	Very limited Ponding Depth to saturated zone Surface percs slowly	1.00 1.00 1.00	Very limited Ponding Wetness Surface percs slowly	1.00 1.00 1.00
8422A: Cape-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.60 0.32	Very limited Ponding Depth to saturated zone Droughty	1.00 1.00 0.01	Very limited Ponding Wetness	1.00 1.00
8422A+: Cape-----	Very limited Percs slowly Ponding Depth to saturated zone Flooding Too acid	1.00 1.00 1.00 0.60 0.32	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
8426A: Karnak-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding Too acid	1.00 1.00 1.00 0.60 0.44	Very limited Ponding Depth to saturated zone Droughty	1.00 1.00 0.87	Very limited Ponding Wetness	1.00 1.00
8426A+: Karnak-----	Very limited Ponding Depth to saturated zone Percs slowly Flooding	1.00 1.00 1.00 0.60	Very limited Ponding Depth to saturated zone	1.00 1.00	Very limited Ponding Wetness	1.00 1.00
8597A: Armiesburg-----	Somewhat limited Flooding	0.60	Not limited		Not limited	
MW: Miscellaneous water-	Not rated		Not rated		Not rated	
W: Water-----	Not rated		Not rated		Not rated	

Table 19.—Engineering Index Properties

(Absence of an entry indicates that the data were not estimated)

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
79B: Menfro-----	0-10	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	10-62	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	62-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79C: Menfro-----	0-10	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	10-62	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	62-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79C2: Menfro-----	0-7	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	7-59	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	59-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79C3: Menfro-----	0-5	Silty clay loam, silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	5-57	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	57-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79D: Menfro-----	0-10	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	10-62	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	62-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79D2: Menfro-----	0-7	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	7-59	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	59-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
79D3: Menfro-----	0-5	Silt loam, silty clay loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	5-57	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	57-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79E: Menfro-----	0-10	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	10-62	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	62-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79E2: Menfro-----	0-7	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	7-59	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	59-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79E3: Menfro-----	0-5	Silty clay loam, silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	5-57	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	57-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
79F: Menfro-----	0-10	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	10-62	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	62-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
164A: Stoy-----	0-13	Silt loam	CL, ML	A-4, A-6	0	0	100	100	95-100	90-100	30-40	10-15
	13-32	Silty clay loam	CL	A-7	0	0	100	100	95-100	90-100	40-50	22-32
	32-45	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	35-50	15-25
	45-80	Silt loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	30-45	13-25
164B: Stoy-----	0-13	Silt loam	CL, ML	A-4, A-6	0	0	100	100	95-100	90-100	30-40	10-15
	13-32	Silty clay loam	CL	A-7	0	0	100	100	95-100	90-100	40-50	22-32
	32-45	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	35-50	15-25
	45-80	Silt loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	30-45	13-25

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
165A: Weir-----	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	20-35	5-17
	8-17	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	95-100	90-100	15-25	3-10
	17-39	Silty clay loam	CL	A-7, A-6	0	0	100	100	95-100	90-100	35-50	15-30
	39-80	Silt loam	CL	A-6, A-4	0	0	100	100	95-100	90-100	20-30	9-16
175B: Lamont-----	0-11	Fine sandy loam	SC, SC-SM	A-2, A-4	0	0	100	100	80-95	25-50	15-25	5-10
	11-17	Fine sandy loam, loamy fine sand, sandy loam	SC-SM, SM	A-2, A-4	0	0	100	100	80-95	15-50	15-25	NP-5
	17-27	Fine sandy loam, loam, sandy clay loam	SC, SC-SM	A-2, A-4	0	0	100	100	85-95	30-50	20-30	5-10
	27-80	Loamy fine sand, loamy sand, sand	SM	A-2, A-3	0	0	100	100	70-90	5-25	0-14	NP
214B: Hosmer-----	0-7	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	3-10
	7-28	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	25-35	5-15
	28-67	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	20-30	5-15
	67-80	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-95	15-25	3-10
214C: Hosmer-----	0-7	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	3-10
	7-28	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	25-35	5-15
	28-67	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	20-30	5-15
	67-80	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-95	15-25	3-10
214C2: Hosmer-----	0-4	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	3-10
	4-25	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	25-35	5-15
	25-64	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	20-30	5-15
	64-80	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-95	15-25	3-10

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
214C3: Hosmer-----	0-2	Silty clay loam, silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	3-10
	2-23	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	25-35	5-15
	23-62	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	20-30	5-15
	62-80	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-95	15-25	3-10
214D2: Hosmer-----	0-4	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	3-10
	4-25	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	25-35	5-15
	25-64	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	20-30	5-15
	64-80	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-95	15-25	3-10
214D3: Hosmer-----	0-2	Silt loam, silty clay loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	3-10
	2-23	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	25-35	5-15
	23-62	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-95	20-30	5-15
	62-80	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-95	15-25	3-10
216D2: Stookey-----	0-3	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
	3-59	Silt loam	CL	A-6	0	0	100	100	98-100	93-100	30-40	10-15
	59-80	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
216E: Stookey-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
	6-62	Silt loam	CL	A-6	0	0	100	100	98-100	93-100	30-40	10-15
	62-80	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
216E2: Stookey-----	0-3	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
	3-59	Silt loam	CL	A-6	0	0	100	100	98-100	93-100	30-40	10-15
	59-80	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
216E3: Stookey-----	0-1	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
	1-57	Silt loam	CL	A-6	0	0	100	100	98-100	93-100	30-40	10-15
	57-80	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
216F:												
Stookey-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
	6-62	Silt loam	CL	A-6	0	0	100	100	98-100	93-100	30-40	10-15
	62-80	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
216G:												
Stookey-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
	6-62	Silt loam	CL	A-6	0	0	100	100	98-100	93-100	30-40	10-15
	62-80	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
308B:												
Alford-----	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	10-38	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	38-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308C:												
Alford-----	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	10-38	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	38-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308C2:												
Alford-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	6-32	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	32-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308C3:												
Alford-----	0-5	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	5-33	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	33-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308D:												
Alford-----	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	10-38	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	38-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308D2:												
Alford-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	6-32	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	32-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
308D3: Alford-----	0-5	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	5-33	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	33-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308E: Alford-----	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	10-38	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	38-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308E2: Alford-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	6-32	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	32-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308E3: Alford-----	0-5	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	5-33	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	33-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
308F: Alford-----	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-100	20-30	5-15
	10-38	Silty clay loam, silt loam	CL	A-6	0	0	100	100	90-100	80-100	30-40	10-20
	38-80	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	90-100	70-100	15-25	NP-10
453C: Muren-----	0-9	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-90	20-30	5-15
	9-14	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-90	20-30	5-15
	14-51	Silty clay loam, silt loam	CL	A-6, A-4	0	0	100	100	90-100	80-100	25-35	8-15
	51-80	Silt loam, silt	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	NP-10
453C3: Muren-----	0-8	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-90	20-30	5-15
	8-43	Silty clay loam, silt loam	CL	A-6, A-4	0	0	100	100	90-100	80-100	25-35	8-15
	43-80	Silt loam, silt	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	NP-10

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
453D2: Muren-----	0-9	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-90	20-30	5-15
	9-46	Silty clay loam, silt loam	CL	A-6, A-4	0	0	100	100	90-100	80-100	25-35	8-15
	46-80	Silt loam, silt	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	NP-10
453D3: Muren-----	0-8	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	90-100	70-90	20-30	5-15
	8-43	Silty clay loam, silt loam	CL	A-6, A-4	0	0	100	100	90-100	80-100	25-35	8-15
	43-80	Silt loam, silt	CL, CL-ML, ML	A-4	0	0	100	100	90-100	70-90	15-25	NP-10
477B: Winfield-----	0-9	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-40	10-25
	9-13	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
	13-56	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	56-80	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
477C2: Winfield-----	0-6	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-40	10-25
	6-10	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
	10-53	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	53-80	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
477C3: Winfield-----	0-4	Silty clay loam, silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-40	10-25
	4-8	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
	8-51	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	51-80	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
477D2: Winfield-----	0-6	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-40	10-25
	6-10	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
	10-53	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	53-80	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
477D3: Winfield-----	0-4	Silty clay loam, silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-40	10-25
	4-8	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	35-45	15-25
	8-51	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	51-80	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
694D2: Menfro-----	0-7	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	7-59	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	59-80	Silty clay loam, silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
Baxter-----	0-12	Gravelly silt loam	ML, GM, GC-GM, CL-ML	A-4	0	0-10	60-90	55-80	45-70	45-70	25-35	4-10
	12-19	Gravelly silty clay loam, gravelly silt loam	CL, CL-ML, GC, SC-SM	A-6, A-4	0	0-10	60-90	55-80	55-80	45-80	25-40	5-20
	19-40	Gravelly silty clay, gravelly clay	CH, CL, GC, SC	A-7	0	0-10	55-90	45-85	45-85	45-80	40-60	20-35
	40-80	Very gravelly clay, gravelly silty clay	CH, CL, GC, SC	A-7	0	0-20	50-90	40-75	35-70	35-70	45-70	20-40
694F: Menfro-----	0-10	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	10-62	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	62-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
Baxter-----	0-15	Gravelly silt loam	ML, GM, GC-GM, CL-ML	A-4	0	0-10	60-90	55-80	45-70	45-70	25-35	4-10
	15-22	Gravelly silty clay loam, gravelly silt loam	CL, CL-ML, GC, SC-SM	A-6, A-4	0	0-10	60-90	55-80	55-80	45-80	25-40	5-20
	22-43	Gravelly silty clay, gravelly clay	CH, CL, GC, SC	A-7	0	0-10	55-90	45-85	45-85	45-80	40-60	20-35
	43-80	Very gravelly clay, gravelly silty clay	CH, CL, GC, SC	A-7	0	0-20	50-90	40-75	35-70	35-70	45-70	20-40
717F: Stookey-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
	6-62	Silt loam	CL	A-6	0	0	100	100	98-100	93-100	30-40	10-15
	62-80	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
717F: Clarksville-----	0-16	Gravelly silt loam	GC, GC-GM, SC, SC-SM	A-4, A-6	0-10	5-20	65-95	60-85	55-80	40-50	20-35	5-15
	16-26	Very gravelly silt loam, very gravelly silty clay loam, very gravelly silty clay, extremely gravelly silty clay loam	GC, SC, SP-SC	A-2-6, A-6	0-10	5-20	30-70	10-60	10-50	5-45	30-40	15-25
	26-80	Very gravelly silty clay, very gravelly clay, extremely gravelly silty clay	GC, SC	A-2-7, A-7	0-20	5-20	30-70	20-60	10-50	10-45	55-75	35-55
717G: Clarksville-----	0-16	Gravelly silt loam	GC, GC-GM, SC, SC-SM	A-4, A-6	0-10	5-20	65-95	60-85	55-80	40-50	20-35	5-15
	16-26	Very gravelly silt loam, very gravelly silty clay loam, very gravelly silty clay, extremely gravelly silty clay loam	GC, SC, SP-SC	A-2-6, A-6	0-10	5-20	30-70	10-60	10-50	5-45	30-40	15-25
	26-80	Very gravelly silty clay, very gravelly clay, extremely gravelly silty clay	GC, SC	A-2-7, A-7	0-20	5-20	30-70	20-60	10-50	10-45	55-75	35-55
Stookey-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
	6-62	Silt loam	CL	A-6	0	0	100	100	98-100	93-100	30-40	10-15
	62-80	Silt loam, silt	CL, CL-ML	A-4, A-6	0	0	100	100	98-100	93-100	20-30	5-15
801B: Orthents-----	0-80	Silt loam, silty clay loam	CL, CL-ML	A-6, A-4, A-7	0	0	100	100	90-100	80-95	25-45	5-25
802D: Orthents-----	0-6	Loam, silt loam, clay loam	CL	A-6	0	0-5	95-100	90-100	85-95	60-90	20-40	10-20
	6-80	Loam, silt loam, very fine sandy loam	CL	A-6	0	0-5	95-100	90-100	85-95	60-90	20-40	10-20
864. Pits, quarries												

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth <u>In</u>	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit <u>Pct</u>	Plas- ticity index
			Unified	AASHTO	>10 inches <u>Pct</u>	3-10 inches <u>Pct</u>	4	10	40	200		
865. Pits, gravel												
1843A: Bonnie-----	0-10	Silt loam	CL	A-4, A-6	0	0	100	100	95-100	90-100	27-34	8-12
	10-27	Silt loam	CL	A-4, A-6	0	0	100	100	95-100	90-100	27-34	8-12
	27-80	Silt loam, silty clay loam	CL	A-6, A-4	0	0	100	100	90-100	85-100	25-39	8-15
Petrolia-----	0-8	Silty clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	80-100	35-45	15-22
	8-55	Silty clay loam	CL	A-7, A-6	0	0	100	95-100	90-100	85-100	35-45	15-22
	55-80	Silty clay loam, silt loam	CL	A-6, A-7, A-4	0	0	100	95-100	80-100	60-100	20-45	8-22
1845A: Darwin-----	0-14	Silty clay	CH, CL	A-7	0	0	100	100	100	90-100	45-85	25-55
	14-56	Silty clay, clay	CH, CL	A-7	0	0	100	100	100	85-100	45-85	25-55
	56-80	Silty clay loam, silty clay	CH, CL	A-6, A-7	0	0	100	100	95-100	90-100	35-70	20-45
Jacob-----	0-4	Silty clay, clay	CH, MH	A-7	0	0	100	100	100	95-100	60-85	33-45
	4-50	Clay, silty clay	MH	A-7	0	0	100	100	100	95-100	65-85	30-45
	50-80	Clay, silty clay	MH	A-7	0	0	100	100	100	95-100	60-85	33-45
1846A: Karnak-----	0-5	Silty clay	CH, CL	A-7	0	0	100	100	95-100	95-100	45-80	25-45
	5-50	Silty clay, clay	CH, CL, MH, ML	A-7	0	0	100	100	95-100	95-100	45-80	20-40
	50-80	Silty clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	85-100	45-80	25-45
Cape-----	0-10	Silty clay loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-50	20-30
	10-22	Silty clay loam, silty clay	CH, CL	A-6, A-7	0	0	100	100	100	95-100	35-50	20-30
	22-80	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	100	90-100	39-70	30-45
3070A: Beaucoup-----	0-16	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	30-45	15-25
	16-46	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	30-45	15-30
	46-80	Stratified very fine sandy loam to silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	90-100	60-95	20-40	5-20

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
3070L:												
Beaucoup-----	0-16	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	30-45	15-25
	16-46	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	30-45	15-30
	46-80	Stratified very fine sandy loam to silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	90-100	60-95	20-40	5-20
3071A:												
Darwin-----	0-14	Silty clay	CH, CL	A-7	0	0	100	100	100	90-100	45-85	25-55
	14-56	Silty clay, clay	CH, CL	A-7	0	0	100	100	100	85-100	45-85	25-55
	56-80	Silty clay loam, silty clay	CH, CL	A-6, A-7	0	0	100	100	95-100	90-100	35-70	20-45
3072A:												
Sharon-----	0-13	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	95-100	85-95	20-30	2-10
	13-40	Silt loam	CL-ML, CL, ML, SC, SM	A-4	0	0	100	100	70-95	40-90	15-30	NP-10
	40-80	Silt loam, loam, sandy loam	CL-ML, CL, ML, SC, SM	A-4	0	0	100	100	70-95	40-90	15-30	NP-10
3108A:												
Bonnie-----	0-10	Silt loam	CL	A-4, A-6	0	0	100	100	95-100	90-100	27-34	8-12
	10-27	Silt loam	CL	A-4, A-6	0	0	100	100	95-100	90-100	27-34	8-12
	27-80	Silt loam, silty clay loam	CL	A-6, A-4	0	0	100	100	90-100	85-100	25-39	8-15
3162L:												
Gorham-----	0-14	Silty clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	70-90	35-50	15-25
	14-36	Silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	100	90-95	40-55	15-30
	36-54	Clay loam, sandy clay loam, loam	CL	A-6, A-7	0	0	100	80-90	70-80	50-80	30-45	10-20
	54-80	Sand, loamy sand, sandy loam, fine sandy loam, fine sand	SC, SC-SM, SM, SP-SM	A-2, A-4	0	0	100	75-90	55-80	10-50	15-30	NP-10
3180A:												
Dupo-----	0-9	Silt loam	CL, CL-ML	A-4	0	0	100	100	100	95-100	20-30	5-10
	9-25	Silt loam	CL, CL-ML	A-4	0	0	100	100	100	95-100	20-30	5-10
	25-80	Silty clay, clay, silty clay loam	CH	A-7-6	0	0	100	100	100	98-100	50-70	30-45

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth In	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit Pct	Plas- ticity index
			Unified	AASHTO	>10 inches Pct	3-10 inches Pct	4	10	40	200		
3284A: Tice-----	0-16	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	30-45	10-20
	16-72	Silty clay loam, silt loam	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	15-30
	72-80	Stratified loam to silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	100	60-95	55-80	25-45	5-20
3284L: Tice-----	0-16	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	30-45	10-20
	16-72	Silty clay loam, silt loam	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	15-30
	72-80	Stratified loam to silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	100	60-95	55-80	25-45	5-20
3288A: Petrolia-----	0-8	Silty clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	80-100	35-45	15-22
	8-55	Silty clay loam	CL	A-7, A-6	0	0	100	95-100	90-100	85-100	35-45	15-22
	55-80	Silty clay loam, silt loam	CL	A-6, A-7, A-4	0	0	100	95-100	80-100	60-100	20-45	8-22
3288L: Petrolia-----	0-8	Silty clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	80-100	35-45	15-22
	8-55	Silty clay loam	CL	A-7, A-6	0	0	100	95-100	90-100	85-100	35-45	15-22
	55-80	Silty clay loam, silt loam	CL	A-6, A-7, A-4	0	0	100	95-100	80-100	60-100	20-45	8-22
3331A: Haymond-----	0-20	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	85-100	20-30	3-10
	20-60	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	80-100	20-30	3-10
	60-80	Fine sandy loam, silt loam, loam	ML, SC, SM	A-4	0	0	95-100	90-100	65-100	35-90	15-35	2-15
3331L: Haymond-----	0-20	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	85-100	20-30	3-10
	20-60	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	80-100	20-30	3-10
	60-80	Fine sandy loam, loam, silt loam	ML, SC, SM	A-4, A-6	0	0	95-100	90-100	65-100	35-90	15-35	2-15
3333A: Wakeland-----	0-8	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	80-100	16-28	3-9
	8-68	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	80-100	16-28	3-9
	68-80	Silt loam, loam	ML, CL-ML	A-4	0	0	100	100	85-100	60-100	16-28	3-9
3333L: Wakeland-----	0-8	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	80-100	16-28	3-9
	8-68	Silt loam	CL, CL-ML, ML	A-4	0	0	100	100	90-100	80-100	16-28	3-9
	68-80	Silt loam, loam	ML, CL, CL-ML	A-4	0	0	100	100	85-100	60-100	16-28	3-9

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
3334A:												
Birds-----	0-22	Silt loam	CL	A-6, A-4	0	0	100	95-100	90-100	80-100	24-34	8-15
	22-80	Silt loam	CL	A-6, A-4	0	0	100	95-100	90-100	80-100	24-34	8-15
3334L:												
Birds-----	0-22	Silt loam	CL	A-6, A-4	0	0	100	95-100	90-100	80-100	24-34	8-15
	22-80	Silt loam	CL	A-6, A-4	0	0	100	95-100	90-100	80-100	24-34	8-15
3382A:												
Belknap-----	0-7	Silt loam	CL-ML, ML, CL	A-4	0	0	100	95-100	95-100	80-100	20-30	2-8
	7-59	Silt loam	CL-ML, ML, CL	A-4, A-6	0	0	100	95-100	95-100	80-100	20-35	NP-12
	59-80	Silt loam, silty clay loam	CL, CL-ML, ML	A-6, A-4	0	0	100	95-100	95-100	75-100	20-40	3-20
3420A:												
Piopolis-----	0-7	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	35-50	15-25
	7-37	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-95	35-50	15-25
	37-80	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	90-100	70-95	35-50	15-25
3422A:												
Cape-----	0-10	Silty clay loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-50	20-30
	10-22	Silty clay loam, silty clay	CH, CL	A-6, A-7	0	0	100	100	100	95-100	35-50	20-30
	22-80	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	100	90-100	39-70	30-45
3422A+:												
Cape-----	0-16	Silt loam	CL	A-4, A-6	0	0	100	100	90-100	70-90	27-34	8-12
	16-22	Silty clay loam, silty clay	CH, CL	A-6, A-7	0	0	100	100	100	95-100	35-50	20-30
	22-80	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	100	90-100	39-70	30-45
3426A:												
Karnak-----	0-5	Silty clay	CH, CL	A-7	0	0	100	100	95-100	95-100	45-80	25-45
	5-50	Silty clay, clay	CH, CL, MH, ML	A-7	0	0	100	100	95-100	95-100	45-80	20-40
	50-80	Silty clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	85-100	45-80	25-45
3426A+:												
Karnak-----	0-13	Silt loam	ML	A-4, A-6	0	0	100	100	90-100	85-95	30-45	5-20
	13-18	Silty clay	CH	A-7	0	0	100	100	95-100	95-100	45-80	25-45
	18-63	Silty clay, clay	CH, MH	A-7	0	0	100	100	95-100	95-100	45-80	20-40
	63-80	Silty clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	85-100	45-80	25-45

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
3426L: Karnak-----	0-5	Silty clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	95-100	45-80	25-45
	5-50	Silty clay, clay	CH	A-7	0	0	100	100	95-100	95-100	45-80	20-40
	50-80	Silty clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	85-100	45-80	25-45
3449L: Armiesburg-----	0-15	Silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	85-100	35-55	20-35
	15-67	Silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	85-100	35-55	20-35
	67-80	Silt loam, silty clay loam	CL, CH	A-7, A-6	0	0	100	100	90-100	75-100	35-55	20-35
Sarpy-----	0-9	Fine sand	SM	A-2-4	0	0	100	100	60-80	15-35	0-14	NP
	9-80	Stratified loamy fine sand to sand	SM, SP, SP-SM	A-2-4, A-3	0	0	100	100	60-80	2-35	0-14	NP
3456BL: Ware-----	0-14	Loam	SC-SM, SM	A-4	0	0	100	100	95-100	35-50	15-25	NP-5
	14-21	Very fine sandy loam, loam	CL, CL-ML, ML	A-4	0	0	100	100	95-100	50-70	20-30	2-10
	21-80	Very fine sandy loam, loamy fine sand, stratified very fine sandy loam to loamy fine sand	CL-ML, ML, SC-SM, SM	A-2, A-4	0	0	100	100	60-90	10-60	15-25	NP-6
3597L: Armiesburg-----	0-15	Silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	85-100	35-55	20-35
	15-67	Silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	85-100	35-55	20-35
	67-80	Silt loam, silty clay loam	CL, CH	A-7, A-6	0	0	100	100	90-100	75-100	35-55	20-35
5079B2: Menfro-----	0-7	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	7-59	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	59-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
5079C3: Menfro-----	0-5	Silt loam, silty clay loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	5-57	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	57-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>	
5079D3: Menfro-----	0-5	Silty clay loam, silt loam	CL	A-6	0	0	100	100	95-100	90-100	25-35	11-20
	5-57	Silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	95-100	35-45	20-25
	57-80	Silt loam, silty clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
7084A: Okaw-----	0-7	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	30-40	15-20
	7-15	Silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	30-50	10-25
	15-54	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	95-100	85-100	50-80	30-50
	54-80	Silty clay loam, silty clay, clay	CL, CH	A-7	0	0	100	100	95-100	80-100	45-65	20-35
7122B: Colp-----	0-8	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	30-40	15-20
	8-12	Silt loam	CL	A-6	0	0	100	100	95-100	90-100	30-40	15-20
	12-70	Silty clay loam, silty clay	CH	A-7	0	0	100	100	95-100	90-100	50-70	30-40
	70-80	Silty clay, silty clay loam	CH	A-7	0	0	100	100	95-100	85-100	50-60	25-35
7122C2: Colp-----	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	8-70	Silty clay, silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	90-100	35-60	20-40
	70-80	Silty clay, silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	85-100	35-55	15-30
7122D2: Colp-----	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	90-100	25-35	5-15
	8-70	Silty clay, silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	90-100	35-60	20-40
	70-80	Silty clay, silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	85-100	35-55	15-30

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
7131A: Alvin-----	0-10	Fine sandy loam	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	10-16	Fine sandy loam, very fine sandy loam, sandy loam, loamy fine sand	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	16-42	Fine sandy loam, very fine sandy loam, sandy loam, loam	SC, CL, ML, SM	A-4, A-2, A-6	0	0	100	100	70-100	20-80	15-40	NP-15
	42-80	Loamy fine sand, very fine sand, fine sandy loam, fine sand	SM, SP, SP-SM	A-2, A-1, A-3	0	0	95-100	90-100	45-95	4-35	15-20	NP-4
7131B: Alvin-----	0-10	Fine sandy loam	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	10-16	Fine sandy loam, very fine sandy loam, sandy loam, loamy fine sand	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	16-42	Fine sandy loam, very fine sandy loam, sandy loam, loam	SC, CL, ML, SM	A-4, A-2, A-6	0	0	100	100	70-100	20-80	15-40	NP-15
	42-80	Loamy fine sand, very fine sand, fine sandy loam, fine sand	SM, SP, SP-SM	A-2, A-1, A-3	0	0	95-100	90-100	45-95	4-35	15-20	NP-4
7131C: Alvin-----	0-10	Fine sandy loam	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	10-16	Fine sandy loam, very fine sandy loam, sandy loam, loamy fine sand	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	16-42	Fine sandy loam, very fine sandy loam, sandy loam, loam	SC, CL, ML, SM	A-4, A-2, A-6	0	0	100	100	70-100	20-80	15-40	NP-15
	42-80	Loamy fine sand, very fine sand, fine sandy loam, fine sand	SM, SP, SP-SM	A-2, A-1, A-3	0	0	95-100	90-100	45-95	4-35	15-20	NP-4

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
7131C2: Alvin-----	0-7	Fine sandy loam	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	7-13	Fine sandy loam, very fine sandy loam, sandy loam, loamy fine sand	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	13-39	Fine sandy loam, very fine sandy loam, sandy loam, loam	SC, CL, ML, SM	A-4, A-2, A-6	0	0	100	100	70-100	20-80	15-40	NP-15
	39-80	Loamy fine sand, very fine sand, fine sandy loam, fine sand	SM, SP, SP-SM	A-2, A-1, A-3	0	0	95-100	90-100	45-95	4-35	15-20	NP-4
7131D2: Alvin-----	0-7	Fine sandy loam	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	7-13	Fine sandy loam, very fine sandy loam, sandy loam, loamy fine sand	SM, ML	A-4, A-2	0	0	100	100	80-95	30-60	15-25	NP-4
	13-39	Fine sandy loam, very fine sandy loam, sandy loam, loam	SC, CL, ML, SM	A-4, A-2, A-6	0	0	100	100	70-100	20-80	15-40	NP-15
	39-80	Loamy fine sand, very fine sand, fine sandy loam, fine sand	SM, SP, SP-SM	A-2, A-1, A-3	0	0	95-100	90-100	45-95	4-35	15-20	NP-4
7338A: Hurst-----	0-7	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	95-100	95-100	75-100	20-35	4-15
	7-12	Silty clay loam, silt loam	CL	A-4, A-6	0	0	100	100	95-100	90-100	20-35	5-15
	12-62	Silty clay loam, silty clay, clay	CH, CL	A-7	0	0	100	100	95-100	90-100	40-60	20-35
	62-80	Stratified silty clay loam to silty clay	CH, CL	A-6, A-7	0	0	100	100	90-100	85-100	35-55	15-30

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
7338B: Hurst-----	0-7	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	95-100	95-100	75-100	20-35	4-15
	7-12	Silty clay loam, silt loam	CL	A-4, A-6	0	0	100	100	95-100	90-100	20-35	5-15
	12-62	Silty clay loam, silty clay, clay	CH, CL	A-7	0	0	100	100	95-100	90-100	40-60	20-35
	62-80	Stratified silty clay loam to silty clay	CH, CL	A-6, A-7	0	0	100	100	90-100	85-100	35-55	15-30
7401A: Okaw-----	0-10	Silty clay loam	CL	A-7, A-6	0	0	100	100	95-100	90-100	35-50	15-30
	10-18	Silt loam, silty clay loam	CL	A-6, A-7	0	0	100	100	95-100	90-100	30-50	10-25
	18-57	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	95-100	85-100	50-80	30-50
	57-80	Silty clay loam, silty clay, clay	CH	A-7	0	0	100	100	95-100	80-100	45-65	20-35
7460A: Ginat-----	0-19	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	60-90	20-30	5-15
	19-34	Silt loam, silty clay loam	CL	A-6	0	0	100	100	90-100	70-90	25-35	10-15
	34-49	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	30-45	15-25
	49-80	Silty clay loam, silt loam, clay loam, loam, silty clay	CL	A-6, A-7	0	0-5	80-100	75-100	70-100	70-95	35-50	20-30
7462A: Sciotoville----	0-8	Silt loam	CL-ML, ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10
	8-24	Silt loam, silty silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-90	20-35	4-15
	24-52	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	85-100	65-90	25-40	4-18
	52-80	Stratified silty clay loam to gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-15	75-100	75-100	65-100	45-70	5-35	NP-15

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
7462B: Sciotoville-----	0-8	Silt loam	CL-ML, ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10
	8-24	Silt loam, silty silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-90	20-35	4-15
	24-52	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	85-100	65-90	25-40	4-18
	52-80	Stratified silty clay loam to gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-15	75-100	75-100	65-100	45-70	5-35	NP-15
7462C2: Sciotoville-----	0-5	Silt loam	CL-ML, ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10
	5-21	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-90	20-35	4-15
	21-49	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	85-100	65-90	25-40	4-18
	49-80	Stratified silty clay loam to gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-15	75-100	75-100	65-100	45-70	5-35	NP-15
7462C3: Sciotoville-----	0-3	Silt loam	CL-ML, ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10
	3-19	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-90	20-35	4-15
	19-47	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	85-100	65-90	25-40	4-18
	47-80	Stratified silty clay loam to gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-15	75-100	75-100	65-100	45-70	5-35	NP-15
7462D2: Sciotoville-----	0-5	Silt loam	CL-ML, ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10
	5-21	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-90	20-35	4-15
	21-49	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	85-100	65-90	25-40	4-18
	49-80	Stratified silty clay loam to gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-15	75-100	75-100	65-100	45-70	5-35	NP-15

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
7462D3: Sciotoville-----	0-3	Silt loam	CL-ML, ML	A-4	0	0	95-100	95-100	90-100	65-95	25-35	4-10
	3-19	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	85-100	70-90	20-35	4-15
	19-47	Silt loam, silty clay loam, loam	CL, CL-ML	A-4, A-6	0	0-5	95-100	90-100	85-100	65-90	25-40	4-18
	47-80	Stratified silty clay loam to gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-15	75-100	75-100	65-100	45-70	5-35	NP-15
7463A: Wheeling-----	0-10	Silt loam	CL, ML, SC, SM	A-4	0	0	90-100	90-100	85-100	45-90	15-35	NP-10
	10-49	Clay loam, loam, silt loam, silty clay loam, gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-5	90-100	70-100	65-100	45-80	20-40	2-20
	49-80	Stratified fine sandy loam to very gravelly loamy sand	GM, GP, GW, SM	A-1, A-2, A-3, A-4	0	10-20	35-90	20-75	10-65	4-45	15-20	NP-10
7463B: Wheeling-----	0-10	Silt loam	CL, ML, SC, SM	A-4	0	0	90-100	90-100	85-100	45-90	15-35	NP-10
	10-49	Clay loam, loam, silt loam, silty clay loam, gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-5	90-100	70-100	65-100	45-80	20-40	2-20
	49-80	Stratified fine sandy loam to very gravelly loamy sand	GM, GP, GW, SM	A-1, A-2, A-3, A-4	0	10-20	35-90	20-75	10-65	4-45	15-20	NP-10
7463C2: Wheeling-----	0-7	Silt loam	CL, ML, SC, SM	A-4	0	0	90-100	90-100	85-100	45-90	15-35	NP-10
	7-46	Clay loam, loam, silt loam, silty clay loam, gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-5	90-100	70-100	65-100	45-80	20-40	2-20
	46-80	Stratified fine sandy loam to very gravelly loamy sand	GM, GP, GW, SM	A-1, A-2, A-3, A-4	0	10-20	35-90	20-75	10-65	4-45	15-20	NP-10

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches Pct	3-10 inches Pct	4	10	40	200		
	<u>In</u>										<u>Pct</u>	
7463D3: Wheeling-----	0-5	Silt loam	CL, ML, SC, SM	A-4	0	0	90-100	90-100	85-100	45-90	15-35	NP-10
	5-44	Clay loam, loam, silt loam, silty clay loam, gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-5	90-100	70-100	65-100	45-80	20-40	2-20
	44-80	Stratified fine sandy loam to very gravelly loamy sand	GM, GP, GW, SM	A-1, A-2, A-3, A-4	0	10-20	35-90	20-75	10-65	4-45	15-20	NP-10
7711A: Hatfield-----	0-14	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	60-90	20-40	5-15
	14-36	Silt loam, silty clay loam	CL	A-4, A-6	0	0	100	100	90-100	70-90	25-35	8-15
	36-45	Silt loam, silty clay loam, clay loam, loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-90	25-42	8-20
	45-80	Silty clay loam, silt loam, clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	30-45	15-25
7711B: Hatfield-----	0-14	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	60-90	20-40	5-15
	14-36	Silt loam, silty clay loam	CL	A-4, A-6	0	0	100	100	90-100	70-90	25-35	8-15
	36-45	Silt loam, silty clay loam, clay loam, loam	CL	A-4, A-6, A-7	0	0	100	100	90-100	70-90	25-42	8-20
	45-80	Silty clay loam, silt loam, clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	30-45	15-25
8070A: Beaucoup-----	0-16	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	30-45	15-25
	16-46	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	30-45	15-30
	46-80	Stratified very fine sandy loam to silty clay loam	CL, CL-ML	A-6, A-4	0	0	100	100	90-100	60-95	20-40	5-20
8071A: Darwin-----	0-14	Silty clay	CH, CL	A-7	0	0	100	100	100	90-100	45-85	25-55
	14-56	Silty clay, clay	CH, CL	A-7	0	0	100	100	100	85-100	45-85	25-55
	56-80	Silty clay loam, silty clay	CH, CL	A-6, A-7	0	0	100	100	95-100	90-100	35-70	20-45

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
8072A: Sharon-----	0-13	Silt loam	CL-ML, CL, ML	A-4	0	0	100	100	95-100	85-95	20-30	2-10
	13-40	Silt loam	CL-ML, CL, ML, SC, SM	A-4	0	0	100	100	70-95	40-90	15-30	NP-10
	40-80	Silt loam, loam, sandy loam	CL-ML, CL, ML, SC, SM	A-4	0	0	100	100	70-95	40-90	15-30	NP-10
8085A: Jacob-----	0-4	Silty clay	CH, MH	A-7	0	0	100	100	100	95-100	60-85	33-45
	4-50	Clay, silty clay	MH	A-7	0	0	100	100	100	95-100	65-85	30-45
	50-80	Clay	MH	A-7	0	0	100	100	100	95-100	60-85	33-45
8108A: Bonnie-----	0-10	Silt loam	CL	A-4, A-6	0	0	100	100	95-100	90-100	27-34	8-12
	10-27	Silt loam	CL	A-4, A-6	0	0	100	100	95-100	90-100	27-34	8-12
	27-80	Silt loam, silty clay loam	CL	A-6, A-4	0	0	100	100	90-100	85-100	25-39	8-15
8109A: Raccoon-----	0-6	Silt loam	CL	A-6, A-4	0	0	100	100	95-100	90-100	30-35	10-15
	6-30	Silt loam	CL	A-6, A-4	0	0	100	100	95-100	90-100	30-35	10-15
	30-59	Silty clay loam	CL	A-6	0	0	100	100	95-100	90-100	35-45	15-20
	59-80	Silt loam, silty clay loam, loam	CL	A-6, A-4	0	0	95-100	90-100	75-100	60-90	30-40	10-20
8162A: Gorham-----	0-14	Silty clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	70-90	35-50	15-25
	14-36	Silty clay loam, silty clay	CH, CL	A-7	0	0	100	100	100	90-95	40-55	15-30
	36-54	Clay loam, sandy clay loam, loam	CL	A-6, A-7	0	0	100	80-90	70-80	50-80	30-45	10-20
	54-80	Sand, loamy sand, sandy loam, fine sandy loam, fine sand	SC, SC-SM, SM, SP-SM	A-2, A-4	0	0	100	75-90	55-80	10-50	15-30	NP-10
8178A: Ruark-----	0-18	Fine sandy loam	CL-ML, ML, SC-SM, SM	A-4	0	0	100	100	90-100	40-60	15-25	NP-7
	18-37	Loam, clay loam, sandy clay loam	CL, CL-ML	A-4, A-6	0	0	100	100	95-100	55-70	25-40	5-15
	37-80	Sandy loam, fine sandy loam, sandy clay loam	CL-ML, ML, SC-SM, SM	A-4	0	0	100	90-100	90-100	40-75	15-25	NP-7

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
8180A: Dupo-----	0-9	Silt loam	CL, CL-ML	A-4	0	0	100	100	100	95-100	20-30	5-10
	9-25	Silt loam	CL, CL-ML	A-4	0	0	100	100	100	95-100	20-30	5-10
	25-80	Silty clay, clay, silty clay loam	CH	A-7-6	0	0	100	100	100	98-100	50-70	30-45
8184A: Roby-----	0-13	Fine sandy loam	SM, ML	A-4, A-2-4	0	0	100	100	80-98	33-56	12-20	NP-4
	13-16	Loamy fine sand, fine sand, fine sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	90-100	65-90	20-50	15-20	NP-7
	16-49	Fine sandy loam, sandy loam, loam	SM, ML	A-2, A-4	0	0	90-100	90-100	85-95	30-75	20-34	NP-7
	49-80	Stratified gravelly sand to loam	ML, SC-SM, SM, SP-SM	A-2, A-4	0	0	80-100	75-90	50-90	10-65	15-20	NP-7
8184B: Roby-----	0-13	Fine sandy loam	SM, ML	A-4, A-2-4	0	0	100	100	80-98	33-56	12-20	NP-4
	13-16	Loamy fine sand, fine sand, fine sandy loam	SC-SM, SM	A-2, A-4	0	0	90-100	90-100	65-90	20-50	15-20	NP-7
	16-49	Fine sandy loam, sandy loam, loam	SM, ML	A-2, A-4	0	0	90-100	90-100	85-95	30-75	20-34	NP-7
	49-80	Stratified gravelly sand to loam	ML, SC-SM, SM, SP-SM	A-2, A-4	0	0	80-100	75-90	50-90	10-65	15-20	NP-7
8284A: Tice-----	0-16	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	30-45	10-20
	16-72	Silty clay loam, silt loam	CH, CL	A-7	0	0	100	100	95-100	85-95	40-55	15-30
	72-80	Stratified loam to silty clay loam	CL, CL-ML	A-4, A-6, A-7	0	0	100	100	60-95	55-80	25-45	5-20
8288A: Petrolia-----	0-8	Silty clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	80-100	35-45	15-22
	8-55	Silty clay loam	CL	A-7, A-6	0	0	100	95-100	90-100	85-100	35-45	15-22
	55-80	Silty clay loam, silt loam	CL	A-6, A-7, A-4	0	0	100	95-100	80-100	60-100	20-45	8-22
8331A: Haymond-----	0-20	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	85-100	20-30	3-10
	20-60	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	80-100	20-30	3-10
	60-80	Fine sandy loam, loam, silt loam	ML, SC, SM	A-4	0	0	95-100	90-100	65-100	35-90	15-35	2-15

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
8333A:												
Wakeland-----	0-8	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	80-100	16-28	3-9
	8-68	Silt loam	CL-ML, ML	A-4	0	0	100	100	90-100	80-100	16-28	3-9
	68-80	Silt loam, loam	ML, CL, CL-ML	A-4	0	0	100	100	85-100	60-100	16-28	3-9
8334A:												
Birds-----	0-22	Silt loam	CL	A-6, A-4	0	0	100	95-100	90-100	80-100	24-34	8-15
	22-80	Silt loam	CL	A-6, A-4	0	0	100	95-100	90-100	80-100	24-34	8-15
8382A:												
Belknap-----	0-7	Silt loam	CL-ML, ML	A-4	0	0	100	95-100	90-100	80-100	20-30	2-8
	7-59	Silt loam	CL-ML, ML	A-4	0	0	100	95-100	90-100	80-100	20-35	NP-12
	59-80	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-6, A-4	0	0	100	95-100	95-100	75-100	20-40	3-20
8420A:												
Piopolis-----	0-7	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-95	35-50	15-25
	7-37	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-95	35-50	15-25
	37-80	Silty clay loam, silt loam	CL	A-6, A-7	0	0	100	100	90-100	70-95	35-50	15-25
8422A:												
Cape-----	0-10	Silty clay loam	CL	A-7, A-6	0	0	100	100	100	95-100	35-50	20-30
	10-22	Silty clay loam, silty clay	CH, CL	A-6, A-7	0	0	100	100	100	95-100	35-50	20-30
	22-80	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	100	90-100	39-70	30-45
8422A+:												
Cape-----	0-16	Silt loam	CL	A-4, A-6	0	0	100	100	90-100	70-90	27-34	8-12
	16-22	Silty clay loam, silty clay	CH, CL	A-6, A-7	0	0	100	100	100	95-100	35-50	20-30
	22-80	Silty clay, clay, silty clay loam	CH	A-7	0	0	100	100	100	90-100	39-70	30-45
8426A:												
Karnak-----	0-5	Clay	CH, CL	A-7	0	0	100	100	95-100	95-100	45-80	25-45
	5-50	Silty clay, clay	CH	A-7	0	0	100	100	95-100	95-100	45-80	20-40
	50-80	Silty clay, silty clay loam	CH	A-7	0	0	100	100	95-100	85-100	45-80	25-45

Table 19.—Engineering Index Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	<u>In</u>				<u>Pct</u>	<u>Pct</u>					<u>Pct</u>	
8426A+:												
Karnak-----	0-13	Silt loam	ML, CL	A-4, A-6, A-7	0	0	100	100	90-100	85-95	30-45	5-20
	13-18	Silty clay loam, silty clay	CH	A-7	0	0	100	100	95-100	95-100	45-80	25-45
	18-63	Silty clay, clay	CH	A-7	0	0	100	100	95-100	95-100	45-80	20-40
	63-80	Silty clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	85-100	45-80	25-45
8597A:												
Armiesburg-----	0-15	Silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	85-100	35-55	20-35
	15-67	Silty clay loam	CL, CH	A-7, A-6	0	0	100	100	95-100	85-100	35-55	20-35
	67-80	Silt loam, silty clay loam	CL, CH	A-7, A-6	0	0	100	100	90-100	75-100	35-55	20-35
MW. Miscellaneous water												
W. Water												

Table 20.--Physical Properties of the Soils

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" apply only to the surface layer. Absence of an entry indicates that data were not estimated)

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- ibility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
79B:													
Menfro-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-62	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	62-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79C:													
Menfro-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-62	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	62-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79C2:													
Menfro-----	0-7	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	7-59	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	59-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79C3:													
Menfro-----	0-5	0-5	68-85	12-35	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	4	6
	5-57	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	57-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79D:													
Menfro-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-62	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	62-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79D2:													
Menfro-----	0-7	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	7-59	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	59-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79D3:													
Menfro-----	0-5	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	4	6
	5-57	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	57-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
79E:													
Menfro-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-62	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	62-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79E2:													
Menfro-----	0-7	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	7-59	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	59-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79E3:													
Menfro-----	0-5	0-5	68-85	12-35	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	4	6
	5-57	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	57-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
79F:													
Menfro-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-62	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	62-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.43	.43		
164A:													
Stoy-----	0-13	0-5	68-88	12-27	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	5	5
	13-32	0-5	60-73	27-35	1.35-1.55	0.06-0.2	0.18-0.20	3.0-5.9	0.2-1.0	.37	.37		
	32-45	0-5	60-73	27-35	1.30-1.60	0.06-0.2	0.09-0.12	3.0-5.9	0.2-0.5	.37	.37		
	45-80	0-10	65-80	20-27	1.40-1.75	0.06-0.2	0.10-0.15	0.0-2.9	0.2-0.5	.43	.43		
164B:													
Stoy-----	0-13	0-5	68-88	12-27	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	5	5
	13-32	0-5	60-73	27-35	1.35-1.55	0.06-0.2	0.18-0.20	3.0-5.9	0.2-1.0	.37	.37		
	32-45	0-5	60-73	27-35	1.30-1.60	0.06-0.2	0.09-0.12	3.0-5.9	0.2-0.5	.37	.37		
	45-80	0-10	65-80	20-27	1.40-1.75	0.06-0.2	0.10-0.15	0.0-2.9	0.2-0.5	.43	.43		
165A:													
Weir-----	0-8	0-10	70-85	12-20	1.30-1.50	0.2-0.6	0.22-0.24	0.0-2.9	1.0-2.5	.43	.43	3	5
	8-17	0-10	70-85	12-20	1.40-1.55	0.06-0.2	0.17-0.20	0.0-2.9	0.1-0.5	.55	.55		
	17-39	0-7	53-65	35-40	1.40-1.60	0.0015-0.06	0.18-0.20	6.0-8.9	0.0-0.2	.37	.37		
	39-80	0-7	66-80	20-27	1.45-1.65	0.06-0.2	0.20-0.22	0.0-2.9	0.0-0.1	.43	.43		

Table 20.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
175B:													
Lamont-----	0-11	43-85	5-45	5-15	1.50-1.55	2-6	0.15-0.18	0.0-2.9	0.5-1.0	.20	.20	5	3
	11-17	45-90	5-49	2-19	1.50-1.55	2-6	0.09-0.16	0.0-2.9	0.0-0.5	.24	.24		
	17-27	25-80	5-45	5-30	1.45-1.65	2-6	0.09-0.16	0.0-2.9	0.0-0.5	.24	.24		
	27-80	35-90	5-45	2-20	1.65-1.75	6-20	0.04-0.15	0.0-2.9	0.0-0.5	.17	.17		
214B:													
Hosmer-----	0-7	0-5	68-88	12-27	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	4	5
	7-28	0-5	65-82	18-35	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.2-1.0	.43	.43		
	28-67	0-5	65-85	15-35	1.60-1.70	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.2	.43	.43		
	67-80	0-10	65-85	15-27	1.50-1.70	0.6-2	0.22-0.24	0.0-2.9	0.0-0.2	.43	.43		
214C:													
Hosmer-----	0-7	0-5	68-88	12-27	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	4	5
	7-28	0-5	65-82	18-35	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.2-1.0	.43	.43		
	28-67	0-5	65-85	15-35	1.60-1.70	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.2	.43	.43		
	67-80	0-10	65-85	15-27	1.50-1.70	0.6-2	0.22-0.24	0.0-2.9	0.0-0.2	.43	.43		
214C2:													
Hosmer-----	0-4	0-5	68-88	12-27	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	4	5
	4-25	0-5	65-82	18-35	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.2-1.0	.43	.43		
	25-64	0-5	65-85	15-35	1.60-1.70	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.2	.43	.43		
	64-80	0-10	65-85	15-27	1.50-1.70	0.6-2	0.22-0.24	0.0-2.9	0.0-0.2	.43	.43		
214C3:													
Hosmer-----	0-2	0-5	68-88	12-33	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	3	6
	2-23	0-5	65-82	18-35	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.2-1.0	.43	.43		
	23-62	0-5	65-85	15-35	1.60-1.70	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.2	.43	.43		
	62-80	0-10	65-85	15-27	1.50-1.70	0.6-2	0.22-0.24	0.0-2.9	0.0-0.2	.43	.43		
214D2:													
Hosmer-----	0-4	0-5	68-88	12-27	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	4	5
	4-25	0-5	65-82	18-35	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.2-1.0	.43	.43		
	25-64	0-5	65-85	15-35	1.60-1.70	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.2	.43	.43		
	64-80	0-10	65-85	15-27	1.50-1.70	0.6-2	0.22-0.24	0.0-2.9	0.0-0.2	.43	.43		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
214D3:													
Hosmer-----	0-2	0-5	68-88	12-33	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	3	6
	2-23	0-5	65-82	18-35	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.2-1.0	.43	.43		
	23-62	0-5	65-85	15-35	1.60-1.70	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.2	.43	.43		
	62-80	0-10	65-85	15-27	1.50-1.70	0.6-2	0.22-0.24	0.0-2.9	0.0-0.2	.43	.43		
216D2:													
Stookey-----	0-3	0-5	73-95	0-22	1.10-1.45	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.49	.49	5	5
	3-59	0-5	68-82	18-27	1.20-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	59-80	0-5	71-90	10-24	1.20-1.50	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.55	.55		
216E:													
Stookey-----	0-6	0-5	73-95	0-22	1.10-1.45	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.49	.49	5	5
	6-62	0-5	68-82	18-27	1.20-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	62-80	0-5	71-90	10-24	1.20-1.50	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.55	.55		
216E2:													
Stookey-----	0-3	0-5	73-95	0-22	1.10-1.45	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.49	.49	5	5
	3-59	0-5	68-82	18-27	1.20-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	59-80	0-5	71-90	10-24	1.20-1.50	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.55	.55		
216E3:													
Stookey-----	0-1	0-5	73-95	0-22	1.10-1.45	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.49	.49	4	5
	1-57	0-5	68-82	18-27	1.20-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	57-80	0-5	71-90	10-24	1.20-1.50	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.55	.55		
216F:													
Stookey-----	0-6	0-5	73-95	0-22	1.10-1.45	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.49	.49	5	5
	6-62	0-5	68-82	18-27	1.20-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	62-80	0-5	71-90	10-24	1.20-1.50	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.55	.55		
216G:													
Stookey-----	0-6	0-5	73-95	0-22	1.10-1.45	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.49	.49	5	5
	6-62	0-5	68-82	18-27	1.20-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	62-80	0-5	71-90	10-24	1.20-1.50	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.55	.55		

Table 20.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
308B:													
Alford-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-38	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	38-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308C:													
Alford-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-38	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	38-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308C2:													
Alford-----	0-6	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	6-32	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	32-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308C3:													
Alford-----	0-5	0-5	68-85	12-35	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	4	6
	5-33	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	33-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308D:													
Alford-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-38	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	38-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308D2:													
Alford-----	0-6	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	6-32	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	32-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308D3:													
Alford-----	0-5	0-5	68-85	12-35	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	4	6
	5-33	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	33-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308E:													
Alford-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-38	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	38-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
308E2:													
Alford-----	0-6	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	6-32	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	32-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308E3:													
Alford-----	0-5	0-5	68-85	12-35	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	4	6
	5-33	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	33-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
308F:													
Alford-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-38	0-5	62-80	20-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	38-80	0-28	60-85	12-22	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
453C:													
Muren-----	0-9	0-5	77-85	8-18	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	9-14	0-5	77-85	8-18	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.2-1.0	.49	.49		
	14-51	0-5	63-82	18-32	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	51-80	0-10	75-85	8-15	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
453C3:													
Muren-----	0-8	0-5	63-82	18-32	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.5	.43	.43	4	6
	8-43	0-5	63-82	18-32	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	43-80	0-10	75-85	8-15	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
453D2:													
Muren-----	0-9	0-5	77-85	8-18	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	9-46	0-5	63-82	18-32	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	46-80	0-10	75-85	8-15	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		
453D3:													
Muren-----	0-8	0-5	63-82	18-32	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.5	.43	.43	4	6
	8-43	0-5	63-82	18-32	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	43-80	0-10	75-85	8-15	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.2	.55	.55		

Table 20.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- ibility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
477B:													
Winfield-----	0-9	0-5	68-85	12-27	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.37	.37	5	5
	9-13	0-5	65-78	22-30	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.5-1.0	.37	.37		
	13-56	0-5	65-76	24-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	56-80	0-10	65-85	8-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.37	.37		
477C2:													
Winfield-----	0-6	0-5	68-85	12-27	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.37	.37	5	5
	6-10	0-5	65-78	22-30	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.5-1.0	.37	.37		
	10-53	0-5	65-76	24-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	53-80	0-10	65-85	8-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.37	.37		
477C3:													
Winfield-----	0-4	0-5	68-85	12-27	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.37	.37	4	6
	4-8	0-5	65-78	22-30	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.2-0.8	.37	.37		
	8-51	0-5	65-76	24-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	51-80	0-10	65-85	8-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.37	.37		
477D2:													
Winfield-----	0-6	0-5	68-85	12-27	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.37	.37	5	5
	6-10	0-5	65-78	22-30	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.5-1.0	.37	.37		
	10-53	0-5	65-76	24-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	53-80	0-10	65-85	8-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.37	.37		
477D3:													
Winfield-----	0-4	0-5	68-85	12-27	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.37	.37	4	6
	4-8	0-5	65-78	22-30	1.30-1.50	0.6-2	0.18-0.22	3.0-5.9	0.5-1.0	.37	.37		
	8-51	0-5	65-76	24-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	51-80	0-10	65-85	8-27	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.37	.37		
694D2:													
Menfro-----	0-7	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	7-59	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	59-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43		
Baxter-----	0-12	0-38	50-82	12-27	1.20-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.28	.32	5	5
	12-19	0-42	40-70	18-40	1.30-1.55	0.6-2	0.14-0.18	3.0-5.9	0.1-1.0	.17	.20		
	19-40	0-20	20-60	40-60	1.30-1.55	0.6-2	0.10-0.14	3.0-5.9	0.0-0.5	.17	.20		
	40-80	0-20	20-60	40-60	1.35-1.65	0.6-2	0.08-0.13	3.0-5.9	0.0-0.1	.15	.20		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
694F:													
Menfro-----	0-10	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	10-62	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	62-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43		
Baxter-----	0-15	0-38	50-82	12-27	1.20-1.40	0.6-2	0.14-0.18	0.0-2.9	2.0-4.0	.28	.32	5	5
	15-22	0-42	40-70	18-40	1.30-1.55	0.6-2	0.14-0.18	3.0-5.9	0.1-1.0	.17	.20		
	22-43	0-20	20-60	40-60	1.30-1.55	0.6-2	0.10-0.14	3.0-5.9	0.0-0.5	.17	.20		
	43-80	0-20	20-60	40-60	1.35-1.65	0.6-2	0.08-0.13	3.0-5.9	0.0-0.1	.15	.20		
717F:													
Stookey-----	0-6	0-5	73-95	0-22	1.10-1.45	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.49	.49	5	5
	6-62	0-5	68-82	18-27	1.20-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	62-80	0-5	71-90	10-24	1.20-1.50	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.55	.55		
Clarksville----	0-16	0-50	50-80	0-25	1.20-1.40	2-6	0.12-0.17	0.0-2.9	0.5-2.0	.28	.32	3	8
	16-26	5-30	30-70	25-41	1.30-1.45	2-6	0.06-0.10	0.0-2.9	0.2-0.5	.17	.20		
	26-80	5-40	15-60	25-75	1.20-1.40	0.6-2	0.05-0.08	3.0-5.9	0.1-0.4	.02	.15		
717G:													
Clarksville----	0-16	0-50	50-80	0-25	1.20-1.40	2-6	0.12-0.17	0.0-2.9	0.5-2.0	.28	.32	3	8
	16-26	5-30	30-70	25-41	1.30-1.45	2-6	0.06-0.10	0.0-2.9	0.2-0.5	.17	.20		
	26-80	5-40	15-60	25-75	1.20-1.40	0.6-2	0.05-0.08	3.0-5.9	0.1-0.4	.02	.15		
Stookey-----	0-6	0-5	73-95	0-22	1.10-1.45	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.49	.49	5	5
	6-62	0-5	68-82	18-27	1.20-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	62-80	0-5	71-90	10-24	1.20-1.50	0.6-2	0.18-0.20	0.0-2.9	0.0-0.5	.55	.55		
801B:													
Orthents-----	0-80	5-44	51-80	5-35	1.70-1.80	0.2-2	0.16-0.19	3.0-5.9	0.0-1.0	.43	.43	5	6
802D:													
Orthents-----	0-6	5-50	30-77	18-40	1.70-1.75	0.2-0.6	0.18-0.22	3.0-5.9	0.1-1.0	.43	.32	5	6
	6-80	5-67	15-77	18-30	1.70-1.90	0.2-0.6	0.16-0.20	3.0-5.9	0.0-1.0	.43	.32		
864. Pits, quarries													

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
865. Pits, gravel													
1843A: Bonnie-----	0-10	1-32	50-80	18-27	1.30-1.50	0.6-2	0.22-0.25	0.0-2.9	1.0-3.0	.43	.43	5	6
	10-27	1-32	50-80	18-27	1.40-1.60	0.2-0.6	0.21-0.24	0.0-2.9	0.0-1.0	.49	.49		
	27-80	3-42	40-79	18-30	1.40-1.60	0.2-0.6	0.14-0.24	0.0-2.9	0.0-1.0	.49	.49		
Petrolia-----	0-8	0-19	46-70	27-35	1.20-1.40	0.2-0.6	0.21-0.23	3.0-5.9	2.0-3.0	.32	.32	5	7
	8-55	0-19	46-70	27-35	1.35-1.45	0.2-0.6	0.18-0.20	3.0-5.9	0.2-1.0	.32	.32		
	55-80	0-40	40-80	15-35	1.40-1.60	0.2-0.6	0.18-0.20	3.0-5.9	0.2-1.0	.32	.32		
1845A: Darwin-----	0-14	0-10	45-55	40-45	1.20-1.40	0.01-0.06	0.11-0.14	9.0-25.0	4.0-5.0	.24	.24	5	4
	14-56	0-10	35-55	45-60	1.30-1.50	0.01-0.06	0.11-0.14	9.0-25.0	0.0-2.0	.24	.24		
	56-80	0-10	35-70	30-55	1.40-1.60	0.06-0.2	0.10-0.20	6.0-8.9	0.0-0.5	.24	.24		
Jacob-----	0-4	0-5	25-45	55-70	1.30-1.50	0.06-0.2	0.11-0.13	9.0-25.0	2.0-4.0	.28	.28	5	4
	4-50	0-5	20-40	60-75	1.35-1.45	0.01-0.06	0.10-0.13	9.0-25.0	0.0-2.0	.28	.28		
	50-80	0-5	25-45	55-70	1.30-1.45	0.01-0.06	0.10-0.13	9.0-25.0	0.0-1.5	.28	.28		
1846A: Karnak-----	0-5	0-5	30-60	40-65	1.20-1.40	0.06-0.2	0.11-0.14	6.0-8.9	2.0-3.0	.24	.24	5	7
	5-50	0-5	30-60	40-65	1.30-1.50	0.01-0.2	0.09-0.13	6.0-8.9	0.0-0.5	.28	.28		
	50-80	0-5	40-60	35-60	1.35-1.55	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.28	.28		
Cape-----	0-10	0-10	40-70	30-60	1.30-1.60	0.06-0.2	0.15-0.19	3.0-5.9	1.0-3.0	.32	.32	5	7
	10-22	0-10	35-60	35-60	1.30-1.60	0.06-0.2	0.15-0.19	3.0-5.9	0.5-2.0	.32	.32		
	22-80	0-15	35-60	35-65	1.30-1.60	0.01-0.06	0.10-0.13	6.0-8.9	0.1-1.0	.28	.28		
3070A: Beaucoup-----	0-16	1-10	55-72	27-35	1.15-1.35	0.6-2	0.15-0.20	3.0-5.9	5.0-6.0	.28	.28	5	7
	16-46	1-10	55-72	27-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-2.0	.32	.32		
	46-80	5-75	15-80	10-30	1.40-1.65	0.6-2	0.18-0.22	3.0-5.9	0.0-1.0	.32	.32		
3070L: Beaucoup-----	0-16	1-10	55-72	27-35	1.15-1.35	0.6-2	0.15-0.20	3.0-5.9	5.0-6.0	.28	.28	5	7
	16-46	1-10	55-72	27-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-2.0	.32	.32		
	46-80	5-75	15-80	10-30	1.40-1.65	0.6-2	0.18-0.22	3.0-5.9	0.0-1.0	.32	.32		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
3071A:													
Darwin-----	0-14	0-10	45-55	40-45	1.20-1.40	0.01-0.06	0.11-0.14	9.0-25.0	4.0-5.0	.24	.24	5	4
	14-56	0-10	35-55	45-60	1.30-1.50	0.01-0.06	0.11-0.14	9.0-25.0	0.0-2.0	.24	.24		
	56-80	0-10	35-70	30-55	1.40-1.60	0.06-0.2	0.10-0.20	6.0-8.9	0.0-0.5	.24	.24		
3072A:													
Sharon-----	0-13	1-50	30-79	10-20	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	0.5-3.0	.43	.43	5	5
	13-40	1-50	30-79	5-20	1.35-1.65	0.6-2	0.11-0.22	0.0-2.9	0.2-0.5	.49	.49		
	40-80	1-50	30-79	5-20	1.35-1.65	0.6-2	0.11-0.22	0.0-2.9	0.2-0.5	.49	.49		
3108A:													
Bonnie-----	0-10	1-32	50-80	18-27	1.30-1.50	0.6-2	0.22-0.25	0.0-2.9	1.0-3.0	.43	.43	5	6
	10-27	1-32	50-80	18-27	1.40-1.60	0.2-0.6	0.21-0.24	0.0-2.9	0.0-1.0	.49	.49		
	27-80	3-42	40-79	18-30	1.40-1.60	0.2-0.6	0.14-0.24	0.0-2.9	0.0-1.0	.49	.49		
3162L:													
Gorham-----	0-14	2-15	47-60	27-38	1.30-1.50	0.2-0.6	0.13-0.20	3.0-5.9	4.0-5.0	.28	.28	5	4
	14-36	2-15	45-60	27-45	1.35-1.55	0.2-0.6	0.11-0.18	3.0-5.9	0.2-1.0	.28	.28		
	36-54	25-58	20-40	22-35	1.40-1.65	0.6-2	0.15-0.19	3.0-5.9	0.0-0.5	.32	.32		
	54-80	67-93	2-18	0-15	1.50-1.75	2-20	0.05-0.13	0.0-2.9	0.0-0.5	.24	.24		
3180A:													
Dupo-----	0-9	0-10	75-90	10-18	1.25-1.45	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	5	5
	9-25	0-10	75-90	10-18	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	25-80	0-7	33-60	30-60	1.35-1.60	0.06-0.2	0.08-0.19	6.0-8.9	0.2-1.0	.32	.32		
3284A:													
Tice-----	0-16	0-15	50-70	27-35	1.25-1.45	0.6-2	0.21-0.24	3.0-5.9	2.0-3.0	.32	.32	5	7
	16-72	0-15	50-70	22-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.32	.32		
	72-80	5-40	45-65	15-30	1.40-1.60	0.6-2	0.20-0.22	3.0-5.9	0.0-1.0	.32	.32		
3284L:													
Tice-----	0-16	0-15	50-70	27-35	1.25-1.45	0.6-2	0.21-0.24	3.0-5.9	2.0-3.0	.32	.32	5	7
	16-72	0-15	50-70	22-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.32	.32		
	72-80	5-40	45-65	15-30	1.40-1.60	0.6-2	0.20-0.22	3.0-5.9	0.0-1.0	.32	.32		

Table 20.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
3288A:													
Petrolia-----	0-8	0-19	46-70	27-35	1.20-1.40	0.2-0.6	0.21-0.23	3.0-5.9	2.0-3.0	.32	.32	5	7
	8-55	0-19	46-70	27-35	1.35-1.45	0.2-0.6	0.18-0.20	3.0-5.9	0.2-1.0	.32	.32		
	55-80	0-40	40-80	15-35	1.40-1.60	0.2-0.6	0.18-0.20	3.0-5.9	0.2-1.0	.32	.32		
3288L:													
Petrolia-----	0-8	0-19	46-70	27-35	1.20-1.40	0.2-0.6	0.21-0.23	3.0-5.9	2.0-3.0	.32	.32	5	7
	8-55	0-19	46-70	27-35	1.35-1.45	0.2-0.6	0.18-0.20	3.0-5.9	0.2-1.0	.32	.32		
	55-80	0-40	40-80	15-35	1.40-1.60	0.2-0.6	0.18-0.20	3.0-5.9	0.2-1.0	.32	.32		
3331A:													
Haymond-----	0-20	1-35	45-85	10-20	1.30-1.50	0.6-2	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	5	5
	20-60	1-35	47-85	10-18	1.30-1.50	0.6-2	0.20-0.24	0.0-2.9	0.5-2.0	.49	.49		
	60-80	1-65	9-80	2-26	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-1.0	.49	.49		
3331L:													
Haymond-----	0-20	1-35	45-85	10-20	1.30-1.50	0.6-2	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	5	5
	20-60	1-35	47-85	10-18	1.30-1.50	0.6-2	0.20-0.24	0.0-2.9	0.5-2.0	.49	.49		
	60-80	1-65	9-80	2-26	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-1.0	.49	.49		
3333A:													
Wakeland-----	0-8	1-14	68-85	10-18	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	1.0-3.0	.43	.43	5	5
	8-68	1-14	68-85	10-18	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-1.0	.49	.49		
	68-80	3-41	49-85	10-18	1.35-1.55	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
3333L:													
Wakeland-----	0-8	1-14	68-85	10-18	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	1.0-3.0	.43	.43	5	5
	8-68	1-14	68-85	10-18	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-1.0	.49	.49		
	68-80	3-41	49-85	10-18	1.35-1.55	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
3334A:													
Birds-----	0-22	0-15	60-75	15-25	1.30-1.50	0.2-0.6	0.21-0.25	0.0-2.9	1.0-3.0	.43	.43	5	6
	22-80	3-25	55-70	18-27	1.40-1.60	0.2-0.6	0.20-0.22	0.0-2.9	0.0-2.0	.49	.49		
3334L:													
Birds-----	0-22	0-15	60-75	15-25	1.30-1.50	0.2-0.6	0.21-0.25	0.0-2.9	1.0-3.0	.43	.43	5	6
	22-80	3-25	55-70	18-27	1.40-1.60	0.2-0.6	0.20-0.22	0.0-2.9	0.0-2.0	.49	.49		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
3382A:													
Birds-----	0-7	1-27	65-85	8-18	1.30-1.55	0.2-2	0.21-0.25	0.0-2.9	1.0-3.0	.43	.43	5	5
	7-59	1-27	65-85	8-25	1.40-1.60	0.2-2	0.21-0.24	0.0-2.9	0.0-2.0	.49	.49		
	59-80	5-27	65-85	8-30	1.35-1.65	0.2-2	0.14-0.24	0.0-2.9	0.0-1.0	.49	.49		
3420A:													
Piopolis-----	0-7	0-25	45-73	27-35	1.20-1.40	0.06-0.2	0.21-0.23	3.0-5.9	1.0-3.0	.32	.32	5	7
	7-37	0-25	45-73	27-35	1.40-1.60	0.06-0.2	0.18-0.20	3.0-5.9	0.1-2.0	.32	.32		
	37-80	0-30	45-75	25-38	1.50-1.70	0.06-0.2	0.18-0.20	3.0-5.9	0.1-2.0	.32	.32		
3422A:													
Cape-----	0-10	0-10	40-70	30-60	1.30-1.60	0.06-0.2	0.15-0.19	3.0-5.9	1.0-3.0	.32	.32	5	7
	10-22	0-10	35-60	35-60	1.30-1.60	0.06-0.2	0.15-0.19	3.0-5.9	0.5-2.0	.32	.32		
	22-80	0-15	35-60	35-65	1.30-1.60	0.01-0.06	0.10-0.13	6.0-8.9	0.1-1.0	.28	.28		
3422A+:													
Cape-----	0-16	0-38	50-80	12-27	1.30-1.50	0.6-2	0.22-0.25	0.0-2.9	1.0-3.0	.43	.43	5	5
	16-22	0-10	35-60	35-60	1.30-1.60	0.06-0.2	0.15-0.19	3.0-5.9	0.5-2.0	.32	.32		
	22-80	0-15	35-60	35-65	1.30-1.60	0.01-0.06	0.10-0.13	6.0-8.9	0.1-1.0	.28	.28		
3426A:													
Karnak-----	0-5	0-5	30-60	40-65	1.20-1.40	0.06-0.2	0.11-0.14	6.0-8.9	2.0-3.0	.24	.24	5	4
	5-50	0-5	30-60	40-65	1.30-1.50	0.01-0.2	0.09-0.13	6.0-8.9	0.0-0.5	.28	.28		
	50-80	0-5	40-60	35-60	1.35-1.55	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.28	.28		
3426A+:													
Karnak-----	0-13	0-30	50-80	20-27	1.20-1.40	0.2-0.6	0.22-0.24	0.0-2.9	1.0-3.0	.43	.43	5	6
	13-18	0-5	30-60	40-65	1.20-1.40	0.06-0.2	0.11-0.14	6.0-8.9	2.0-3.0	.24	.24		
	18-63	0-5	30-60	40-65	1.30-1.50	0.01-0.2	0.09-0.13	6.0-8.9	0.0-0.5	.28	.28		
	63-80	0-5	40-60	35-60	1.35-1.55	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.28	.28		
3426L:													
Karnak-----	0-5	0-5	30-60	38-65	1.20-1.40	0.06-0.2	0.11-0.14	6.0-8.9	2.0-3.0	.24	.24	5	4
	5-50	0-5	30-60	40-65	1.30-1.50	0.01-0.2	0.09-0.13	6.0-8.9	0.0-0.5	.28	.28		
	50-80	0-5	40-60	35-60	1.35-1.55	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.28	.28		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
3449L:													
Armiesburg-----	0-15	0-30	40-80	20-35	1.30-1.45	0.6-2	0.21-0.23	3.0-5.9	2.0-4.0	.28	.28	5	7
	15-67	0-30	40-70	30-35	1.30-1.45	0.6-2	0.18-0.20	3.0-5.9	0.5-1.0	.32	.32		
	67-80	0-30	40-80	20-35	1.30-1.60	0.6-2	0.16-0.20	3.0-5.9	0.2-1.0	.49	.49		
Sarpy-----	0-9	70-95	0-28	2-10	1.20-1.50	6-20	0.05-0.09	0.0-2.9	0.5-1.0	.02	.02	5	2
	9-80	70-95	0-28	2-5	1.20-1.50	6-20	0.05-0.09	0.0-2.9	0.0-0.5	.02	.02		
3456BL:													
Ware-----	0-14	45-80	5-50	5-20	1.40-1.70	0.6-2	0.15-0.18	0.0-2.9	2.0-3.0	.24	.24	5	3
	14-21	5-80	5-75	8-32	1.40-1.70	0.6-2	0.20-0.24	0.0-2.9	0.2-0.5	.32	.32		
	21-80	30-82	10-62	8-18	1.60-1.70	2-20	0.07-0.19	0.0-2.9	0.2-0.5	.32	.32		
3597L:													
Armiesburg-----	0-15	0-30	40-80	20-35	1.30-1.45	0.6-2	0.21-0.23	3.0-5.9	2.0-4.0	.28	.28	5	7
	15-67	0-30	40-70	30-35	1.30-1.45	0.6-2	0.18-0.20	3.0-5.9	0.5-1.0	.32	.32		
	67-80	0-30	40-80	20-35	1.30-1.60	0.6-2	0.16-0.20	3.0-5.9	0.2-1.0	.32	.32		
5079B2:													
Menfro-----	0-7	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-2.0	.43	.43	5	5
	7-59	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	59-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43		
5079C3:													
Menfro-----	0-5	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	4	6
	5-57	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	57-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43		
5079D3:													
Menfro-----	0-5	0-5	68-85	12-27	1.25-1.40	0.6-2	0.22-0.24	0.0-2.9	0.5-1.0	.43	.43	4	6
	5-57	0-5	63-83	17-33	1.35-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-0.5	.37	.37		
	57-80	0-10	65-85	8-33	1.30-1.45	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.43	.43		
7084A:													
Okaw-----	0-7	1-25	60-80	15-27	1.20-1.40	0.6-2	0.22-0.24	0.0-2.9	1.0-3.0	.43	.43	3	6
	7-15	1-28	60-80	12-30	1.30-1.50	0.2-0.6	0.18-0.20	0.0-2.9	0.5-1.0	.37	.37		
	15-54	1-25	20-60	35-60	1.35-1.60	0.01-0.06	0.09-0.18	6.0-8.9	0.0-0.5	.28	.28		
	54-80	1-25	20-60	35-60	1.50-1.70	0.01-0.06	0.08-0.20	6.0-8.9	0.0-0.5	.28	.28		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
7122B:													
Colp-----	0-8	1-10	63-75	20-27	1.30-1.50	0.2-0.6	0.21-0.25	0.0-2.9	1.0-2.0	.43	.43	5	6
	8-12	1-10	65-75	18-25	1.30-1.55	0.2-0.6	0.20-0.22	0.0-2.9	0.0-1.0	.49	.49		
	12-70	5-15	40-60	35-50	1.45-1.70	0.06-0.2	0.10-0.17	6.0-8.9	0.0-0.5	.32	.32		
	70-80	5-15	40-60	30-45	1.50-1.70	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.37	.37		
7122C2:													
Colp-----	0-8	1-10	63-75	20-27	1.30-1.50	0.2-0.6	0.21-0.25	0.0-2.9	1.0-2.0	.43	.43	5	6
	8-70	5-15	40-60	35-65	1.45-1.70	0.06-0.2	0.10-0.17	6.0-8.9	0.0-0.5	.32	.32		
	70-80	5-15	40-60	30-45	1.50-1.70	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.32	.32		
7122D2:													
Colop-----	0-8	1-10	63-75	20-27	1.30-1.50	0.2-0.6	0.21-0.25	0.0-2.9	1.0-2.0	.43	.43	5	6
	8-70	5-15	40-60	35-65	1.45-1.70	0.06-0.2	0.10-0.17	6.0-8.9	0.0-0.5	.32	.32		
	70-80	5-15	40-60	30-45	1.50-1.70	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.32	.32		
7131A:													
Alvin-----	0-10	45-80	3-45	8-19	1.50-1.70	2-6	0.14-0.17	0.0-2.9	0.5-1.0	.24	.24	5	3
	10-16	45-85	3-45	8-19	1.50-1.70	2-6	0.10-0.17	0.0-2.9	0.0-0.5	.24	.24		
	16-42	35-80	10-40	10-25	1.50-1.70	2-6	0.14-0.18	0.0-2.9	0.0-0.5	.24	.24		
	42-80	50-97	0-45	3-10	1.50-1.70	2-6	0.04-0.08	0.0-2.9	0.0-0.3	.24	.24		
7131B:													
Alvin-----	0-10	45-80	3-45	8-19	1.50-1.70	2-6	0.14-0.17	0.0-2.9	0.5-1.0	.24	.24	5	3
	10-16	45-85	3-45	8-19	1.50-1.70	2-6	0.10-0.17	0.0-2.9	0.0-0.5	.24	.24		
	16-42	35-80	10-40	10-25	1.50-1.70	2-6	0.14-0.18	0.0-2.9	0.0-0.5	.24	.24		
	42-80	50-97	0-45	3-10	1.50-1.70	2-6	0.04-0.08	0.0-2.9	0.0-0.3	.24	.24		
7131C:													
Alvin-----	0-10	45-80	3-45	8-19	1.50-1.70	2-6	0.14-0.17	0.0-2.9	0.5-1.0	.24	.24	5	3
	10-16	45-85	3-45	8-19	1.50-1.70	2-6	0.10-0.17	0.0-2.9	0.0-0.5	.24	.24		
	16-42	35-80	10-40	10-25	1.50-1.70	2-6	0.14-0.18	0.0-2.9	0.0-0.5	.24	.24		
	42-80	50-97	0-45	3-10	1.50-1.70	2-6	0.04-0.08	0.0-2.9	0.0-0.3	.24	.24		
7131C2:													
Alvin-----	0-7	45-80	3-45	8-19	1.50-1.70	2-6	0.14-0.17	0.0-2.9	0.5-1.0	.24	.24	5	3
	7-13	45-85	3-45	8-19	1.50-1.70	2-6	0.10-0.17	0.0-2.9	0.0-0.5	.24	.24		
	13-39	35-80	10-40	10-25	1.50-1.70	2-6	0.14-0.18	0.0-2.9	0.0-0.5	.24	.24		
	39-80	50-97	0-45	3-10	1.50-1.70	2-6	0.04-0.08	0.0-2.9	0.0-0.3	.24	.24		

Table 20.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
7131D2:													
Alvin-----	0-7	45-80	3-45	8-19	1.50-1.70	2-6	0.14-0.17	0.0-2.9	0.5-1.0	.24	.24	5	3
	7-13	45-85	3-45	8-19	1.50-1.70	2-6	0.10-0.17	0.0-2.9	0.0-0.5	.24	.24		
	13-39	35-80	10-40	10-25	1.50-1.70	2-6	0.14-0.18	0.0-2.9	0.0-0.5	.24	.24		
	39-80	50-97	0-45	3-10	1.50-1.70	2-6	0.04-0.08	0.0-2.9	0.0-0.3	.24	.24		
7338A:													
Hurst-----	0-7	1-10	63-79	20-27	1.25-1.45	0.2-0.6	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	3	6
	7-12	1-10	60-80	18-30	1.30-1.50	0.2-0.6	0.20-0.22	0.0-2.9	0.0-0.5	.32	.32		
	12-62	1-35	30-69	30-48	1.45-1.70	0.01-0.06	0.10-0.17	6.0-8.9	0.0-0.5	.28	.28		
	62-80	1-19	36-70	20-45	1.50-1.70	0.01-0.06	0.10-0.18	6.0-8.9	0.0-0.5	.28	.28		
7338B:													
Hurst-----	0-7	1-10	63-79	20-27	1.25-1.45	0.2-0.6	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	3	6
	7-12	1-10	60-80	18-30	1.30-1.50	0.2-0.6	0.20-0.22	0.0-2.9	0.0-0.5	.32	.32		
	12-62	1-35	30-69	30-48	1.45-1.70	0.01-0.06	0.10-0.17	6.0-8.9	0.0-0.5	.28	.28		
	62-80	1-19	36-70	20-45	1.50-1.70	0.01-0.06	0.10-0.18	6.0-8.9	0.0-0.5	.28	.28		
7401A:													
Okaw-----	0-10	1-19	41-70	27-40	1.20-1.40	0.2-0.6	0.21-0.23	3.0-5.9	1.0-3.0	.43	.43	2	7
	10-18	1-28	60-80	12-30	1.30-1.50	0.2-0.6	0.18-0.20	0.0-2.9	0.5-1.0	.49	.49		
	18-57	1-25	20-60	35-60	1.35-1.60	0.01-0.06	0.09-0.18	6.0-8.9	0.0-0.5	.32	.32		
	57-80	1-25	20-60	35-60	1.50-1.70	0.01-0.06	0.08-0.20	6.0-8.9	0.0-0.5	.28	.28		
7460A:													
Ginat-----	0-19	5-15	65-80	12-20	1.30-1.45	0.6-2	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	4	6
	19-34	5-15	51-73	22-34	1.40-1.60	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.32	.32		
	34-49	5-25	40-74	21-42	1.60-1.80	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.5	.32	.32		
	49-80	5-25	40-74	21-42	1.40-1.60	0.2-0.6	0.06-0.08	3.0-5.9	0.0-0.5	.32	.32		
7462A:													
Sciotoville----	0-8	5-35	50-70	15-27	1.30-1.45	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	4	6
	8-24	5-45	30-70	20-35	1.40-1.60	0.6-2	0.17-0.21	0.0-2.9	0.0-0.5	.37	.37		
	24-52	5-45	30-70	20-35	1.60-1.80	0.06-0.6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32		
	52-80	5-70	15-60	15-35	1.50-1.65	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.37	.49		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
7462B:													
Sciotoville----	0-8	5-35	50-70	15-27	1.30-1.45	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	4	6
	8-24	5-45	30-70	20-35	1.40-1.60	0.6-2	0.17-0.21	0.0-2.9	0.0-0.5	.37	.37		
	24-52	5-45	30-70	20-35	1.60-1.80	0.06-0.6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32		
	52-80	5-70	15-60	15-35	1.50-1.65	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.37	.49		
7462C2:													
Sciotoville----	0-5	5-35	50-70	15-27	1.30-1.45	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	4	6
	5-21	5-45	30-70	20-35	1.40-1.60	0.6-2	0.17-0.21	0.0-2.9	0.0-0.5	.37	.37		
	21-49	5-45	30-70	20-35	1.60-1.80	0.06-0.6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32		
	49-80	5-70	15-60	15-35	1.50-1.65	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.37	.49		
7462C3:													
Sciotoville----	0-3	5-35	50-70	15-27	1.30-1.45	0.6-2	0.18-0.22	0.0-2.9	0.5-1.0	.37	.37	3	6
	3-19	5-45	30-70	20-35	1.40-1.60	0.6-2	0.17-0.21	0.0-2.9	0.0-0.5	.37	.37		
	19-47	5-45	30-70	20-35	1.60-1.80	0.06-0.6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32		
	47-80	5-70	15-60	15-35	1.50-1.65	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.37	.49		
7462D2:													
Sciotoville----	0-5	5-35	50-70	15-27	1.30-1.45	0.6-2	0.18-0.22	0.0-2.9	1.0-3.0	.37	.37	4	6
	5-21	5-45	30-70	20-35	1.40-1.60	0.6-2	0.17-0.21	0.0-2.9	0.0-0.5	.37	.37		
	21-49	5-45	30-70	20-35	1.60-1.80	0.06-0.6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32		
	49-80	5-70	15-60	15-35	1.50-1.65	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.37	.49		
7462D3:													
Sciotoville----	0-3	5-35	50-70	15-27	1.30-1.45	0.6-2	0.18-0.22	0.0-2.9	0.5-1.0	.37	.37	3	6
	3-19	5-45	30-70	20-35	1.40-1.60	0.6-2	0.17-0.21	0.0-2.9	0.0-0.5	.37	.37		
	19-47	5-45	30-70	20-35	1.60-1.80	0.06-0.6	0.10-0.14	0.0-2.9	0.0-0.5	.32	.32		
	47-80	5-70	15-60	15-35	1.50-1.65	2-6	0.10-0.14	0.0-2.9	0.0-0.5	.37	.49		
7463A:													
Wheeling-----	0-10	5-59	28-80	12-27	1.20-1.40	0.6-6	0.12-0.18	0.0-2.9	1.0-3.0	.32	.32	4	5
	10-49	5-59	28-80	12-35	1.30-1.50	0.6-2	0.08-0.16	0.0-2.9	0.0-0.5	.20	.24		
	49-80	70-98	1-15	1-15	1.30-1.50	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.20	.24		
7463B:													
Wheeling-----	0-10	5-59	28-80	12-27	1.20-1.40	0.6-6	0.12-0.18	0.0-2.9	1.0-3.0	.32	.32	4	5
	10-49	5-59	28-80	12-35	1.30-1.50	0.6-2	0.08-0.16	0.0-2.9	0.0-0.5	.20	.24		
	49-80	70-98	1-15	1-15	1.30-1.50	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.20	.24		

Table 20.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
7463C2:													
Wheeling-----	0-7	5-59	28-80	12-27	1.20-1.40	0.6-6	0.12-0.18	0.0-2.9	1.0-3.0	.32	.32	4	5
	7-46	5-59	28-80	12-35	1.30-1.50	0.6-2	0.08-0.16	0.0-2.9	0.0-0.5	.20	.24		
	46-80	70-98	1-15	1-15	1.30-1.50	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.20	.24		
7463D3:													
Wheeling-----	0-5	5-59	28-80	12-27	1.20-1.40	0.6-6	0.12-0.18	0.0-2.9	0.5-1.0	.32	.32	3	5
	5-44	5-59	28-80	12-35	1.30-1.50	0.6-2	0.08-0.16	0.0-2.9	0.0-0.5	.20	.24		
	44-80	70-98	1-15	1-15	1.30-1.50	6-20	0.04-0.08	0.0-2.9	0.0-0.5	.20	.24		
7711A:													
Hatfield-----	0-14	1-35	50-80	15-27	1.30-1.45	0.6-2	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	4	6
	14-36	1-35	45-75	20-30	1.40-1.60	0.6-2	0.20-0.22	0.0-2.9	0.5-2.0	.37	.37		
	36-45	1-50	20-75	22-35	1.60-1.80	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.5	.37	.37		
	45-80	1-50	20-75	15-35	1.60-1.80	0.01-0.06	0.14-0.18	3.0-5.9	0.0-0.5	.49	.49		
7711B:													
Hatfield-----	0-14	1-35	50-80	15-27	1.30-1.45	0.6-2	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	4	6
	14-36	1-35	45-75	20-30	1.40-1.60	0.6-2	0.20-0.22	0.0-2.9	0.5-2.0	.37	.37		
	36-45	1-50	20-75	22-35	1.60-1.80	0.01-0.06	0.06-0.08	0.0-2.9	0.0-0.5	.37	.37		
	45-80	1-50	20-75	15-35	1.60-1.80	0.01-0.06	0.14-0.18	3.0-5.9	0.0-0.5	.49	.49		
8070A:													
Beaucoup-----	0-16	1-10	55-72	27-35	1.15-1.35	0.6-2	0.15-0.20	3.0-5.9	5.0-6.0	.28	.28	5	7
	16-46	1-10	55-72	27-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-2.0	.32	.32		
	46-80	5-75	15-80	10-30	1.40-1.65	0.6-2	0.18-0.22	3.0-5.9	0.0-1.0	.32	.32		
8071A:													
Darwin-----	0-14	0-10	45-55	40-45	1.20-1.40	0.01-0.06	0.11-0.14	9.0-25.0	4.0-5.0	.24	.24	5	4
	14-56	0-10	35-55	45-60	1.30-1.50	0.01-0.06	0.11-0.14	9.0-25.0	0.0-2.0	.24	.24		
	56-80	0-10	35-70	30-55	1.40-1.60	0.06-0.2	0.10-0.20	6.0-8.9	0.0-0.5	.24	.24		
8072A:													
Sharon-----	0-13	1-50	30-79	10-20	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	0.5-3.0	.43	.43	5	5
	13-40	1-50	30-79	5-20	1.35-1.65	0.6-2	0.11-0.22	0.0-2.9	0.2-0.5	.49	.49		
	40-80	1-50	30-79	5-20	1.35-1.65	0.6-2	0.11-0.22	0.0-2.9	0.2-0.5	.49	.49		

Table 20.—Physical Properties of the Soils—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
8085A: Jacob-----	0-4	0-5	25-45	55-70	1.30-1.50	0.06-0.2	0.11-0.13	9.0-25.0	2.0-4.0	.28	.28	5	4
	4-50	0-5	20-40	60-75	1.35-1.45	0.01-0.06	0.10-0.13	9.0-25.0	0.0-2.0	.28	.28		
	50-80	0-5	25-45	55-70	1.30-1.45	0.01-0.06	0.10-0.13	9.0-25.0	0.0-1.5	.28	.28		
8108A: Bonnie-----	0-10	1-32	50-80	18-27	1.30-1.50	0.6-2	0.22-0.25	0.0-2.9	1.0-3.0	.43	.43	5	6
	10-27	1-32	50-80	18-27	1.40-1.60	0.2-0.6	0.21-0.24	0.0-2.9	0.0-1.0	.49	.49		
	27-80	3-42	40-79	18-30	1.40-1.60	0.2-0.6	0.14-0.24	0.0-2.9	0.0-1.0	.49	.49		
8109A: Raccoon-----	0-6	1-7	68-80	18-27	1.30-1.50	0.2-0.6	0.22-0.24	0.0-2.9	1.0-2.5	.43	.43	3	6
	6-30	1-7	68-80	18-27	1.35-1.55	0.2-0.6	0.20-0.22	0.0-2.9	0.2-0.8	.49	.49		
	30-59	1-7	60-70	27-35	1.35-1.60	0.06-0.2	0.15-0.20	3.0-5.9	0.1-0.5	.37	.37		
	59-80	5-35	45-70	18-30	1.40-1.65	0.2-0.6	0.15-0.20	3.0-5.9	0.0-0.2	.43	.43		
8162A: Gorham-----	0-14	2-15	47-60	27-38	1.30-1.50	0.2-0.6	0.13-0.20	3.0-5.9	4.0-5.0	.28	.28	5	4
	14-36	2-15	45-60	27-45	1.35-1.55	0.2-0.6	0.11-0.18	3.0-5.9	0.2-1.0	.28	.28		
	36-54	25-58	20-40	22-35	1.40-1.65	0.6-2	0.15-0.19	3.0-5.9	0.0-0.5	.32	.32		
	54-80	67-93	2-18	0-15	1.50-1.75	2-20	0.05-0.13	0.0-2.9	0.0-0.5	.24	.24		
8178A: Ruark-----	0-18	45-80	5-45	10-27	1.40-1.60	0.6-2	0.16-0.18	0.0-2.9	0.5-2.0	.32	.32	5	3
	18-37	20-75	5-50	15-35	1.40-1.60	0.2-0.6	0.15-0.19	0.0-2.9	0.1-5.0	.24	.24		
	37-80	45-80	5-45	10-20	1.45-1.65	0.6-2	0.11-0.16	0.0-2.9	0.0-0.5	.24	.24		
8180A: Dupo-----	0-9	0-10	75-90	10-18	1.25-1.45	0.6-2	0.22-0.24	0.0-2.9	1.0-2.0	.43	.43	5	5
	9-25	0-10	75-90	10-18	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
	25-80	0-7	33-60	30-60	1.35-1.60	0.06-0.2	0.08-0.19	6.0-8.9	0.2-1.0	.32	.32		
8184A: Roby-----	0-13	50-74	14-38	4-12	1.45-1.65	2-6	0.09-0.13	0.0-2.9	0.5-1.0	.20	.20	5	3
	13-16	37-90	1-45	1-18	1.25-1.55	0.6-2	0.09-0.20	0.0-2.9	0.1-0.5	.24	.24		
	16-49	37-80	2-45	10-18	1.40-1.70	0.6-2	0.12-0.19	0.0-2.9	0.1-0.5	.24	.24		
	49-80	40-95	1-45	1-15	1.50-1.85	2-6	0.04-0.17	0.0-2.9	0.1-0.5	.10	.15		

Table 20.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
8184B: Roby-----	0-13	50-74	14-38	4-12	1.45-1.65	2-6	0.09-0.13	0.0-2.9	0.5-1.0	.20	.20	5	3
	13-16	37-90	1-45	1-18	1.25-1.55	0.6-2	0.09-0.20	0.0-2.9	0.1-0.5	.24	.24		
	16-49	37-80	2-45	10-18	1.40-1.70	0.6-2	0.12-0.19	0.0-2.9	0.1-0.5	.24	.24		
	49-80	40-95	1-45	1-15	1.50-1.85	2-6	0.04-0.17	0.0-2.9	0.1-0.5	.10	.15		
8284A: Tice-----	0-16	0-15	50-70	27-35	1.25-1.45	0.6-2	0.21-0.24	3.0-5.9	2.0-3.0	.32	.32	5	7
	16-72	0-15	50-70	22-35	1.30-1.50	0.6-2	0.18-0.20	3.0-5.9	0.0-1.0	.32	.32		
	72-80	5-40	45-65	15-30	1.40-1.60	0.6-2	0.20-0.22	3.0-5.9	0.0-1.0	.32	.32		
8288A: Petrolia-----	0-8	0-19	46-70	27-35	1.20-1.40	0.2-0.6	0.21-0.23	3.0-5.9	2.0-3.0	.32	.32	5	7
	8-55	0-19	46-70	27-35	1.35-1.45	0.2-0.6	0.18-0.20	3.0-5.9	0.2-1.0	.32	.32		
	55-80	0-40	40-80	15-35	1.40-1.60	0.2-0.6	0.18-0.20	3.0-5.9	0.2-1.0	.32	.32		
8331A: Haymond-----	0-20	1-35	45-85	10-20	1.30-1.50	0.6-2	0.20-0.24	0.0-2.9	1.0-3.0	.43	.43	5	5
	20-60	1-35	47-85	10-18	1.30-1.50	0.6-2	0.20-0.24	0.0-2.9	0.5-2.0	.49	.49		
	60-80	1-65	9-80	2-26	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-1.0	.49	.49		
8333A: Wakeland-----	0-8	1-14	68-85	10-18	1.30-1.50	0.6-2	0.22-0.24	0.0-2.9	1.0-3.0	.43	.43	5	6
	8-68	1-14	68-85	10-18	1.30-1.50	0.6-2	0.20-0.22	0.0-2.9	0.0-1.0	.49	.49		
	68-80	3-41	49-85	10-18	1.35-1.55	0.6-2	0.20-0.22	0.0-2.9	0.0-0.5	.49	.49		
8334A: Birds-----	0-22	0-15	60-75	15-25	1.30-1.50	0.2-0.6	0.21-0.25	0.0-2.9	1.0-3.0	.43	.43	5	5
	22-80	3-25	55-70	18-27	1.40-1.60	0.2-0.6	0.20-0.22	0.0-2.9	0.0-2.0	.49	.49		
8382A: Belknap-----	0-7	1-27	65-85	8-18	1.30-1.55	0.2-2	0.21-0.25	0.0-2.9	1.0-3.0	.43	.43	5	5
	7-59	1-27	65-85	8-25	1.40-1.60	0.2-2	0.21-0.24	0.0-2.9	0.0-2.0	.49	.49		
	59-80	5-27	49-85	8-30	1.35-1.65	0.2-2	0.14-0.24	0.0-2.9	0.0-1.0	.49	.49		
8420A: Piopolis-----	0-7	0-25	45-73	27-35	1.20-1.40	0.06-0.2	0.21-0.23	3.0-5.9	1.0-3.0	.32	.32	5	7
	7-37	0-25	45-73	27-35	1.40-1.60	0.06-0.2	0.18-0.20	3.0-5.9	0.1-2.0	.32	.32		
	37-80	0-30	45-75	25-38	1.50-1.70	0.06-0.2	0.18-0.20	3.0-5.9	0.1-2.0	.32	.32		

Table 20.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Permea- bility (Ksat)	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erod- bility group
										Kw	Kf	T	
	In	Pct	Pct	Pct	g/cc	In/hr	In/in	Pct	Pct				
8422A:													
Cape-----	0-10	0-10	40-70	30-60	1.30-1.60	0.06-0.2	0.15-0.19	3.0-5.9	1.0-3.0	.32	.32	5	7
	10-22	0-10	35-60	35-60	1.30-1.60	0.06-0.2	0.15-0.19	3.0-5.9	0.5-2.0	.32	.32		
	22-80	0-15	35-60	35-65	1.30-1.60	0.01-0.06	0.10-0.13	6.0-8.9	0.1-1.0	.28	.28		
8422A+:													
Cape-----	0-16	0-38	50-80	12-27	1.30-1.50	0.6-2	0.22-0.25	0.0-2.9	1.0-3.0	.43	.43	5	5
	16-22	0-10	35-60	35-60	1.30-1.60	0.06-0.2	0.15-0.19	3.0-5.9	0.5-2.0	.32	.32		
	22-80	0-15	35-60	35-65	1.30-1.60	0.01-0.06	0.10-0.13	6.0-8.9	0.1-1.0	.28	.28		
8426A:													
Karnak-----	0-5	0-5	30-60	38-65	1.20-1.40	0.06-0.2	0.11-0.14	6.0-8.9	2.0-3.0	.24	.24	5	4
	5-50	0-5	30-60	40-65	1.30-1.50	0.01-0.2	0.09-0.13	6.0-8.9	0.0-0.5	.28	.28		
	50-80	0-5	40-60	35-60	1.35-1.55	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.28	.28		
8426A+:													
Karnak-----	0-13	0-30	50-80	20-27	1.20-1.40	0.2-0.6	0.22-0.24	0.0-2.9	1.0-3.0	.32	.32	5	6
	13-18	0-5	30-60	38-65	1.20-1.40	0.06-0.2	0.11-0.14	6.0-8.9	2.0-3.0	.24	.24		
	18-63	0-5	30-60	38-65	1.30-1.50	0.01-0.2	0.09-0.13	6.0-8.9	0.0-0.5	.28	.28		
	63-80	0-5	40-60	35-60	1.35-1.55	0.06-0.2	0.10-0.18	6.0-8.9	0.0-0.5	.28	.28		
8597A:													
Armiesburg-----	0-15	0-30	40-80	20-35	1.30-1.45	0.6-2	0.21-0.23	3.0-5.9	2.0-4.0	.28	.28	5	7
	15-67	0-30	40-70	30-35	1.30-1.45	0.6-2	0.18-0.20	3.0-5.9	0.5-1.0	.32	.32		
	67-80	0-30	40-80	20-35	1.30-1.60	0.6-2	0.16-0.20	3.0-5.9	0.2-1.0	.32	.32		
MW. Miscellaneous water													
W. Water													

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties

(Absence of an entry indicates that data were not estimated)

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
79B: Menfro-----	0-10	10-16	---	5.1-7.3	0
	10-62	15-20	11-15	4.5-7.3	0
	62-80	5.0-10	4.0-8.0	4.5-7.3	0
79C: Menfro-----	0-10	10-16	---	5.1-7.3	0
	10-62	15-20	11-15	4.5-7.3	0
	62-80	5.0-10	4.0-8.0	4.5-7.3	0
79C2: Menfro-----	0-7	10-16	---	5.1-7.3	0
	7-59	15-20	11-15	4.5-7.3	0
	59-80	5.0-10	4.0-8.0	4.5-7.3	0
79C3: Menfro-----	0-5	10-16	---	5.1-7.3	0
	5-57	15-20	11-15	4.5-7.3	0
	57-80	5.0-10	4.0-8.0	4.5-7.3	0
79D: Menfro-----	0-10	10-16	---	5.1-7.3	0
	10-62	15-20	11-15	4.5-7.3	0
	62-80	5.0-10	4.0-8.0	4.5-7.3	0
79D2: Menfro-----	0-7	10-16	---	5.1-7.3	0
	7-59	15-20	11-15	4.5-7.3	0
	59-80	5.0-10	4.0-8.0	4.5-7.3	0
79D3: Menfro-----	0-5	10-16	---	5.1-7.3	0
	5-57	15-20	11-15	4.5-7.3	0
	57-80	5.0-10	4.0-8.0	4.5-7.3	0
79E: Menfro-----	0-10	10-16	---	5.1-7.3	0
	10-62	15-20	11-15	4.5-7.3	0
	62-80	5.0-10	4.0-8.0	4.5-7.3	0
79E2: Menfro-----	0-7	10-16	---	5.1-7.3	0
	7-59	15-20	11-15	4.5-7.3	0
	59-80	5.0-10	4.0-8.0	4.5-7.3	0
79E3: Menfro-----	0-5	10-16	---	5.1-7.3	0
	5-57	15-20	11-15	4.5-7.3	0
	57-80	5.0-10	4.0-8.0	4.5-7.3	0
79F: Menfro-----	0-10	10-16	---	5.1-7.3	0
	10-62	15-20	11-15	4.5-7.3	0
	62-80	5.0-10	4.0-8.0	4.5-7.3	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
164A: Stoy-----	0-13	14-20	---	4.5-7.3	0
	13-32	16-22	12-17	4.5-5.5	0
	32-45	16-22	12-17	4.5-5.5	0
	45-80	12-17	9.0-13	4.5-6.0	0
164B: Stoy-----	0-13	14-20	---	4.5-7.3	0
	13-32	16-22	12-17	4.5-5.5	0
	32-45	16-22	12-17	4.5-5.5	0
	45-80	12-17	9.0-13	4.5-6.0	0
165A: Weir-----	0-8	10-20	8.0-15	4.5-7.3	0
	8-17	7.0-13	5.0-10	4.5-7.3	0
	17-39	---	16-20	4.5-5.5	0
	39-80	12-17	9.0-13	4.5-6.5	0
175B: Lamont-----	0-11	10-15	---	5.1-7.3	0
	11-17	10-15	---	5.1-7.3	0
	17-27	10-15	---	5.1-6.5	0
	27-80	5.0-10	---	5.1-7.3	0
214B: Hosmer-----	0-7	12-20	6.0-15	4.5-7.3	0
	7-28	12-23	8.0-15	4.5-5.5	0
	28-67	9.0-21	6.0-14	4.5-6.0	0
	67-80	9.0-16	6.0-11	4.5-6.5	0
214C: Hosmer-----	0-7	9.0-20	6.0-14	4.5-7.3	0
	7-28	12-23	8.0-15	4.5-5.5	0
	28-67	9.0-21	6.0-14	4.5-6.0	0
	67-80	9.0-16	6.0-11	4.5-6.5	0
214C2: Hosmer-----	0-4	9.0-20	6.0-14	4.5-7.3	0
	4-25	12-23	8.0-15	4.5-5.5	0
	25-64	9.0-21	6.0-14	4.5-6.0	0
	64-80	9.0-16	6.0-11	4.5-6.5	0
214C3: Hosmer-----	0-2	9.0-20	6.0-14	4.5-7.3	0
	2-23	12-23	8.0-15	4.5-5.5	0
	23-62	9.0-21	6.0-14	4.5-6.0	0
	62-80	9.0-16	6.0-11	4.5-6.5	0
214D2: Hosmer-----	0-4	9.0-20	6.0-14	4.5-7.3	0
	4-25	12-23	8.0-15	4.5-5.5	0
	25-64	9.0-21	7.0-14	4.5-6.0	0
	64-80	9.0-16	7.0-11	4.5-6.5	0
214D3: Hosmer-----	0-2	9.0-20	6.0-14	4.5-7.3	0
	2-23	12-23	8.0-15	4.5-5.5	0
	23-62	9.0-21	7.0-14	4.5-6.0	0
	62-80	9.0-16	7.0-11	4.5-6.5	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
216D2: Stookey-----	0-3	10-16	8.0-12	4.5-7.3	0
	3-59	12-18	9.0-14	4.5-6.5	0
	59-80	8.0-16	---	5.6-8.4	0-5
216E: Stookey-----	0-6	10-16	8.0-12	4.5-7.3	0
	6-62	12-18	9.0-14	4.5-6.5	0
	62-80	8.0-16	---	5.6-8.4	0-5
216E2: Stookey-----	0-3	10-16	8.0-12	4.5-7.3	0
	3-59	12-18	9.0-14	4.5-6.5	0
	59-80	8.0-16	---	5.6-8.4	0-5
216E3: Stookey-----	0-1	10-16	8.0-12	4.5-7.3	0
	1-57	12-18	9.0-14	4.5-6.5	0
	57-80	8.0-16	---	5.6-8.4	0-5
216F: Stookey-----	0-6	10-16	8.0-12	4.5-7.3	0
	6-62	12-18	9.0-14	4.5-6.5	0
	62-80	8.0-16	---	5.6-8.4	0-5
216G: Stookey-----	0-6	10-16	8.0-12	4.5-7.3	0
	6-62	12-18	9.0-14	4.5-6.5	0
	62-80	8.0-16	---	5.6-8.4	0-5
308B: Alford-----	0-10	8.0-20	6.0-15	4.5-7.3	0
	10-38	12-26	9.0-18	4.5-6.0	0
	38-80	4.0-12	3.0-9.0	5.1-6.5	0
308C: Alford-----	0-10	8.0-20	6.0-15	4.5-7.3	0
	10-38	12-26	9.0-18	4.5-6.0	0
	38-80	4.0-12	3.0-9.0	5.1-6.5	0
308C2: Alford-----	0-6	8.0-20	6.0-15	4.5-7.3	0
	6-32	12-26	9.0-18	4.5-6.0	0
	32-80	4.0-12	3.0-9.0	5.1-6.5	0
308C3: Alford-----	0-5	8.0-20	6.0-15	4.5-7.3	0
	5-33	12-26	9.0-18	4.5-6.0	0
	33-80	4.0-12	3.0-9.0	5.1-6.5	0
308D: Alford-----	0-10	8.0-20	6.0-15	4.5-7.3	0
	10-38	12-26	9.0-18	4.5-6.0	0
	38-80	4.0-12	3.0-9.0	5.1-6.5	0
308D2: Alford-----	0-6	8.0-20	6.0-15	4.5-7.3	0
	6-32	12-26	9.0-18	4.5-6.0	0
	32-80	4.0-12	3.0-9.0	5.1-6.5	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
308D3: Alford-----	0-5	8.0-20	6.0-15	4.5-7.3	0
	5-33	12-26	9.0-18	4.5-6.0	0
	33-80	4.0-12	3.0-9.0	5.1-6.5	0
308E: Alford-----	0-10	8.0-20	6.0-15	4.5-7.3	0
	10-38	12-26	9.0-18	4.5-6.0	0
	38-80	4.0-12	3.0-9.0	5.1-6.5	0
308E2: Alford-----	0-6	8.0-20	6.0-15	4.5-7.3	0
	6-32	12-26	9.0-18	4.5-6.0	0
	32-80	4.0-12	3.0-9.0	5.1-6.5	0
308E3: Alford-----	0-5	8.0-20	6.0-15	4.5-7.3	0
	5-33	12-26	9.0-18	4.5-6.0	0
	33-80	4.0-12	3.0-9.0	5.1-6.5	0
308F: Alford-----	0-10	8.0-20	6.0-15	4.5-7.3	0
	10-38	12-26	9.0-18	4.5-6.0	0
	38-80	4.0-12	3.0-9.0	5.1-6.5	0
453C: Muren-----	0-9	10-20	---	5.1-7.3	0
	9-14	8.0-15	---	5.1-6.5	0
	14-51	15-25	11-19	4.5-6.0	0
	51-80	5.0-15	4.0-11	4.5-7.3	0
453C3: Muren-----	0-8	10-20	---	5.1-7.3	0
	8-43	15-25	11-19	4.5-6.0	0
	43-80	5.0-15	4.0-11	4.5-7.3	0
453D2: Muren-----	0-9	10-20	---	5.1-7.3	0
	9-46	15-25	11-19	4.5-6.0	0
	46-80	5.0-15	4.0-11	4.5-7.3	0
453D3: Muren-----	0-8	10-20	---	5.1-7.3	0
	8-43	15-25	11-19	4.5-6.0	0
	43-80	5.0-15	4.0-11	4.5-7.3	0
477B: Winfield-----	0-9	10-16	---	5.6-7.3	0
	9-13	10-16	---	5.6-7.3	0
	13-56	15-21	11-16	4.5-6.5	0
	56-80	5.0-10	4.0-8.0	5.1-7.3	0
477C2: Winfield-----	0-6	10-16	---	5.6-7.3	0
	6-10	10-16	---	5.6-7.3	0
	10-53	15-21	11-16	4.5-6.5	0
	53-80	5.0-10	4.0-8.0	5.1-7.3	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
477C3:					
Winfield-----	0-4	10-16	---	5.6-7.3	0
	4-8	10-16	---	5.6-7.3	0
	8-51	15-21	11-16	4.5-6.5	0
	51-80	5.0-10	4.0-8.0	5.1-7.3	0
477D2:					
Winfield-----	0-6	10-16	---	5.6-7.3	0
	6-10	10-16	---	5.6-7.3	0
	10-53	15-21	11-16	4.5-6.5	0
	53-80	5.0-10	4.0-8.0	5.1-7.3	0
477D3:					
Winfield-----	0-4	10-16	---	5.6-7.3	0
	4-8	10-16	---	5.6-7.3	0
	8-51	15-21	11-16	4.5-6.5	0
	51-80	5.0-10	4.0-8.0	5.1-7.3	0
694D2:					
Menfro-----	0-7	10-16	---	5.1-7.3	0
	7-59	15-20	11-15	4.5-7.3	0
	59-80	5.0-10	4.0-8.0	4.5-7.3	0
Baxter-----	0-12	9.0-20	6.8-15	4.5-6.5	0
	12-19	7.0-18	5.3-14	4.5-6.5	0
	19-40	10-28	7.5-21	4.5-5.5	0
	40-80	10-28	7.5-21	4.5-5.5	0
694F:					
Menfro-----	0-10	10-16	---	5.1-7.3	0
	10-62	15-20	11-15	4.5-7.3	0
	62-80	5.0-10	4.0-8.0	4.5-7.3	0
Baxter-----	0-15	9.0-20	6.8-15	4.5-6.5	0
	15-22	7.0-18	5.3-14	4.5-6.5	0
	22-43	10-28	7.5-21	4.5-5.5	0
	43-80	10-28	7.5-21	4.5-5.5	0
717F:					
Stookey-----	0-6	10-16	8.0-12	4.5-7.3	0
	6-62	12-18	9.0-14	4.5-6.5	0
	62-80	8.0-16	---	5.6-8.4	0-5
Clarksville-----	0-16	3.0-18	2.0-14	3.6-6.0	0
	16-26	---	10-14	3.6-5.5	0
	26-80	---	12-20	3.6-5.5	0
717G:					
Clarksville-----	0-16	3.0-18	2.0-14	3.6-6.0	0
	16-26	---	10-14	3.6-5.5	0
	26-80	---	12-20	3.6-5.5	0
Stookey-----	0-6	10-16	8.0-12	4.5-7.3	0
	6-62	12-18	9.0-14	4.5-6.5	0
	62-80	8.0-16	---	5.6-8.4	0-5
801B:					
Orthents-----	0-80	3.0-23	---	5.1-6.5	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
802D:					
Orthents-----	0-6	7.0-18	---	5.6-7.3	0
	6-80	7.0-20	---	5.6-7.3	0
864.					
Pits, quarries					
865.					
Pits, gravel					
1843A:					
Bonnie-----	0-10	13-20	---	4.5-7.3	0
	10-27	---	8.0-13	4.5-5.5	0
	27-80	11-16	8.0-13	4.5-7.8	0
Petrolia-----	0-8	20-25	---	5.6-7.8	0
	8-55	15-22	---	5.6-7.3	0
	55-80	10-20	---	5.1-7.8	0
1845A:					
Darwin-----	0-14	32-37	---	6.1-7.8	0
	14-56	27-40	---	6.1-7.8	0
	56-80	18-34	---	6.6-8.4	0-10
Jacob-----	0-4	35-45	---	5.1-6.5	0
	4-50	---	35-45	3.6-5.5	0
	50-80	---	35-45	5.1-6.5	0
1846A:					
Karnak-----	0-5	28-42	---	5.6-6.0	0
	5-50	24-37	---	5.6-7.3	0
	50-80	21-37	---	5.6-7.8	0
Cape-----	0-10	20-30	15-22	4.5-7.3	0
	10-22	---	24-40	3.6-5.5	0
	22-80	---	21-40	3.6-5.5	0
3070A:					
Beaucoup-----	0-16	26-33	---	5.6-7.8	0
	16-46	16-25	---	5.6-7.8	0-5
	46-80	6.0-20	---	6.1-8.4	0-15
3070L:					
Beaucoup-----	0-16	26-33	---	5.6-7.8	0
	16-46	16-25	---	5.6-7.8	0-5
	46-80	6.0-20	---	6.1-8.4	0-15
3071A:					
Darwin-----	0-14	32-37	---	6.1-7.8	0
	14-56	27-40	---	6.1-7.8	0
	56-80	18-34	---	6.6-8.4	0-10
3072A:					
Sharon-----	0-13	7.0-20	5.0-15	4.5-7.3	0
	13-40	3.0-10	2.0-8.0	4.5-5.5	0
	40-80	3.0-10	2.0-8.0	4.5-7.3	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
3108A: Bonnie-----	0-10	13-20	---	4.5-7.3	0
	10-27	---	8.0-13	4.5-5.5	0
	27-80	11-16	8.0-13	4.5-7.8	0
3162L: Gorham-----	0-14	24-35	---	5.1-7.8	0
	14-36	16-26	---	6.1-7.8	0
	36-54	13-20	---	6.1-7.8	0
	54-80	3.0-10	---	6.1-7.8	0-10
3180A: Dupo-----	0-9	8.0-15	---	5.6-7.8	0
	9-25	6.0-12	---	5.6-7.8	0
	25-80	21-35	---	6.6-7.8	0-10
3284A: Tice-----	0-16	20-27	---	6.1-7.8	0
	16-72	16-23	---	5.6-7.8	0
	72-80	9.0-20	---	5.6-7.8	0-10
3284L: Tice-----	0-16	20-27	---	6.1-7.8	0
	16-72	16-23	---	5.6-7.8	0
	72-80	9.0-20	---	5.6-7.8	0-10
3288A: Petrolia-----	0-8	20-25	---	5.6-7.8	0
	8-55	15-22	---	5.6-7.3	0
	55-80	10-20	---	5.1-7.8	0
3288L: Petrolia-----	0-8	20-25	---	5.6-7.8	0
	8-55	15-22	---	5.6-7.3	0
	55-80	10-20	---	5.1-7.8	0
3331A: Haymond-----	0-20	7.0-20	---	5.6-7.8	0
	20-60	5.0-12	---	5.6-7.8	0
	60-80	3.0-16	---	6.1-7.8	0
3331L: Haymond-----	0-20	7.0-20	---	5.6-7.8	0
	20-60	5.0-12	---	5.6-7.8	0
	60-80	3.0-16	---	6.1-7.8	0
3333A: Wakeland-----	0-8	7.0-20	---	5.6-7.8	0
	8-68	5.0-15	---	5.6-7.8	0
	68-80	5.0-15	---	5.6-7.8	0
3333L: Wakeland-----	0-8	7.0-20	---	5.6-7.3	0
	8-68	5.0-15	---	5.6-7.8	0
	68-80	5.0-15	---	5.6-7.8	0
3334A: Birds-----	0-22	11-21	---	5.6-7.8	0
	22-80	11-20	---	5.1-7.8	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
3334L: Birds-----	0-22	11-21	---	5.6-7.8	0
	22-80	11-20	---	5.1-7.8	0
3382A: Belknap-----	0-7	7.0-17	---	4.5-7.3	0
	7-59	---	4.0-14	4.5-5.5	0
	59-80	5.0-20	2.0-15	4.5-7.3	0
3420A: Piopolis-----	0-7	20-25	15-19	5.1-7.3	0
	7-37	15-20	11-16	4.5-5.5	0
	37-80	10-20	8.0-16	5.1-7.3	0
3422A: Cape-----	0-10	20-30	15-22	4.5-7.3	0
	10-22	---	24-40	3.6-5.5	0
	22-80	---	21-40	3.6-5.5	0
3422A+: Cape-----	0-16	13-24	9.8-18	4.5-7.3	0
	16-22	---	24-40	3.6-5.5	0
	22-80	---	21-40	3.6-5.5	0
3426A: Karnak-----	0-5	28-42	---	5.6-6.5	0
	5-50	24-37	---	5.6-7.3	0
	50-80	24-37	---	5.6-7.8	0
3426A+: Karnak-----	0-13	14-21	---	5.6-7.3	0
	13-18	28-42	---	5.6-6.5	0
	18-63	24-37	---	5.6-7.3	0
	63-80	24-37	---	5.6-7.5	0
3426L: Karnak-----	0-5	28-42	---	5.6-6.5	0
	5-50	24-37	---	5.6-7.3	0
	50-80	21-37	---	5.6-7.8	0
3449L: Armiesburg-----	0-15	14-29	---	6.1-7.8	0
	15-67	15-23	---	6.1-7.8	0-5
	67-80	10-23	---	6.1-7.8	0-10
Sarpy-----	0-9	2.0-8.0	---	6.6-7.8	0-2
	9-80	2.0-8.0	---	6.6-7.8	0-2
3456BL: Ware-----	0-14	5.0-15	---	5.6-8.4	0
	14-21	9.0-14	---	5.6-8.4	0
	21-80	5.0-12	---	6.1-7.8	0-5
3597L: Armiesburg-----	0-15	14-29	---	6.1-7.8	0
	15-67	15-23	---	6.1-7.8	0-5
	67-80	10-23	---	6.1-7.8	0-10

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
5079B2: Menfro-----	0-7	10-16	---	5.1-7.3	0
	7-59	15-20	11-15	5.1-7.3	0
	59-80	5.0-10	4.0-8.0	5.1-7.3	0
5079C3: Menfro-----	0-5	10-16	---	5.1-7.3	0
	5-57	15-20	11-15	5.1-7.3	0
	57-80	5.0-10	4.0-8.0	5.1-7.3	0
5079D3: Menfro-----	0-5	10-16	---	5.1-7.3	0
	5-57	15-20	11-15	5.1-7.3	0
	57-80	5.0-10	4.0-8.0	5.1-7.3	0
7084A: Okaw-----	0-7	11-22	---	4.5-7.3	0
	7-15	11-22	8.0-16	4.5-6.5	0
	15-54	22-38	16-28	3.6-7.3	0
	54-80	21-35	16-26	4.5-8.4	0-10
7122B: Colp-----	0-8	14-20	---	5.1-7.3	0
	8-12	14-20	---	5.1-7.3	0
	12-70	28-41	---	4.5-7.8	0
	70-80	18-28	---	4.5-8.4	0-15
7122C2: Colp-----	0-8	14-20	---	5.1-7.8	0
	8-70	28-41	21-31	4.5-7.8	0
	70-80	18-28	14-21	4.5-8.4	0-15
7122D2: Colp-----	0-8	14-20	---	5.1-7.8	0
	8-70	28-41	21-31	4.5-7.8	0
	70-80	18-28	14-21	4.5-8.4	0-15
7131A: Alvin-----	0-10	7.0-11	5.0-8.0	4.5-7.3	0
	10-16	6.0-10	5.0-7.0	4.5-7.3	0
	16-42	9.0-14	6.0-10	4.5-7.3	0
	42-80	2.0-5.0	1.0-4.0	5.1-8.4	0-5
7131B: Alvin-----	0-10	7.0-11	5.0-8.0	4.5-7.3	0
	10-16	6.0-10	5.0-7.0	4.5-7.3	0
	16-42	9.0-14	6.0-10	4.5-7.3	0
	42-80	2.0-5.0	1.0-4.0	5.1-8.4	0-5
7131C: Alvin-----	0-10	7.0-11	5.0-8.0	4.5-7.3	0
	10-16	6.0-10	5.0-7.0	4.5-7.3	0
	16-42	9.0-14	6.0-10	4.5-7.3	0
	42-80	2.0-5.0	1.0-4.0	5.1-8.4	0-5
7131C2: Alvin-----	0-7	7.0-11	5.0-8.0	4.5-7.3	0
	7-13	6.0-10	5.0-7.0	4.5-7.3	0
	13-39	9.0-14	6.0-10	4.5-7.3	0
	39-80	2.0-5.0	1.0-4.0	5.1-8.4	0-5

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
7131D2:					
Alvin-----	0-7	7.0-11	5.0-8.0	4.5-7.3	0
	7-13	6.0-10	5.0-7.0	4.5-7.3	0
	13-39	9.0-14	6.0-10	4.5-7.3	0
	39-80	2.0-5.0	1.0-4.0	5.1-8.4	0-5
7338A:					
Hurst-----	0-7	14-20	---	5.1-7.3	0
	7-12	11-19	8.0-14	3.5-6.0	0
	12-62	21-29	16-22	3.5-7.8	0
	62-80	12-27	9.0-20	5.1-8.4	0-5
7338B:					
Hurst-----	0-7	14-20	---	5.1-7.3	0
	7-12	11-19	8.0-14	3.5-6.0	0
	12-62	21-29	16-22	3.5-7.8	0
	62-80	12-27	9.0-20	4.5-8.4	0-5
7401A:					
Okaw-----	0-10	11-22	---	4.5-7.3	0
	10-18	11-22	8.0-16	4.5-6.5	0
	18-57	22-38	16-28	3.6-7.3	0
	57-80	21-35	16-26	4.5-8.4	0-10
7460A:					
Ginat-----	0-19	10-22	---	4.5-7.3	0
	19-34	---	10-22	4.5-6.0	0
	34-49	---	10-21	4.5-5.5	0
	49-80	---	10-21	4.5-7.8	0
7462A:					
Sciotoville-----	0-8	10-15	---	5.1-6.5	0
	8-24	---	9.0-14	4.5-5.5	0
	24-52	12-19	9.0-14	4.5-6.0	0
	52-80	9.0-19	6.0-16	5.1-6.5	0
7462B:					
Sciotoville-----	0-8	10-15	---	5.1-6.5	0
	8-24	---	9.0-14	4.5-5.5	0
	24-52	12-19	9.0-14	4.5-6.0	0
	52-80	9.0-19	6.0-16	5.1-6.5	0
7462C2:					
Sciotoville-----	0-5	10-15	---	5.1-6.5	0
	5-21	---	9.0-14	4.5-5.5	0
	21-49	12-19	9.0-14	4.5-6.0	0
	49-80	9.0-19	6.0-16	5.1-6.5	0
7462C3:					
Sciotoville-----	0-3	10-15	---	5.1-6.5	0
	3-19	---	9.0-14	4.5-5.5	0
	19-47	12-19	9.0-14	4.5-6.0	0
	47-80	9.0-19	6.0-16	5.1-6.5	0
7462D2:					
Sciotoville-----	0-5	10-15	---	5.1-6.5	0
	5-21	---	9.0-14	4.5-5.5	0
	21-49	12-19	9.0-14	4.5-6.0	0
	49-80	9.0-19	6.0-16	5.1-6.5	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
7462D3: Sciotoville-----	0-3	10-15	---	5.1-6.5	0
	3-19	---	9.0-14	4.5-5.5	0
	19-47	12-19	9.0-14	4.5-6.0	0
	47-80	9.0-19	6.0-16	5.1-6.5	0
7463A: Wheeling-----	0-10	6.0-15	---	5.1-6.5	0
	10-49	9.0-21	---	5.1-6.0	0
	49-80	1.0-8.0	---	5.1-6.0	0
7463B: Wheeling-----	0-10	6.0-15	---	5.1-6.5	0
	10-49	9.0-21	---	5.1-6.0	0
	49-80	1.0-8.0	---	5.1-6.0	0
7463C2: Wheeling-----	0-7	6.0-15	---	5.1-6.5	0
	7-46	9.0-21	---	5.1-6.0	0
	46-80	1.0-8.0	---	5.1-6.0	0
7463D3: Wheeling-----	0-5	6.0-15	---	5.1-6.5	0
	5-44	9.0-21	---	5.1-6.0	0
	44-80	1.0-8.0	---	5.1-6.0	0
7711A: Hatfield-----	0-14	10-15	7.0-11	4.5-7.3	0
	14-36	---	9.0-14	4.5-6.0	0
	36-45	---	10-16	4.5-6.5	0
	45-80	9.0-20	7.0-15	5.1-7.8	0
7711B: Hatfield-----	0-14	10-15	7.0-11	4.5-7.3	0
	14-36	---	9.0-14	4.5-6.0	0
	36-45	---	10-16	4.5-6.5	0
	45-80	9.0-20	7.0-15	5.1-7.8	0
8070A: Beaucoup-----	0-16	26-33	---	5.6-7.8	0
	16-46	16-25	---	5.6-7.8	0-5
	46-80	6.0-20	---	6.1-8.4	0-15
8071A: Darwin-----	0-14	32-37	---	6.1-7.8	0
	14-56	27-40	---	6.1-7.8	0
	56-80	18-34	---	6.6-8.4	0-10
8072A: Sharon-----	0-13	7.0-20	5.0-15	4.5-7.3	0
	13-40	3.0-10	2.0-8.0	4.5-7.3	0
	40-80	3.0-10	2.0-8.0	4.5-7.3	0
8085A: Jacob-----	0-4	35-45	---	5.1-6.5	0
	4-50	---	35-45	3.6-5.5	0
	50-80	---	35-45	5.1-6.5	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
8108A: Bonnie-----	0-10	13-20	---	4.5-7.3	0
	10-27	---	8.0-13	4.5-5.5	0
	27-80	11-16	8.0-13	4.5-7.8	0
8109A: Raccoon-----	0-6	13-20	---	4.5-7.3	0
	6-30	11-17	---	4.5-7.3	0
	30-59	---	17-26	4.5-5.5	0
	59-80	16-31	12-22	4.5-7.3	0
8162A: Gorham-----	0-14	24-35	---	5.1-7.8	0
	14-36	16-26	---	6.1-7.8	0
	36-54	13-20	---	6.1-7.8	0
	54-80	3.0-10	---	6.1-7.8	0-10
8178A: Ruark-----	0-18	4.0-15	---	4.5-7.3	0
	18-37	8.0-18	6.0-14	4.5-6.0	0
	37-80	3.0-7.0	---	5.6-7.8	0
8180A: Dupo-----	0-9	8.0-15	---	5.6-7.8	0
	9-25	6.0-12	---	5.6-7.8	0
	25-80	21-35	---	6.6-7.8	0-10
8184A: Roby-----	0-13	4.0-11	---	4.5-7.3	0
	13-16	2.0-10	1.0-8.0	4.5-6.5	0
	16-49	6.0-12	---	5.6-7.3	0
	49-80	2.0-10	---	5.6-7.8	0
8184B: Roby-----	0-13	4.0-11	---	4.5-7.3	0
	13-16	2.0-10	1.0-8.0	4.5-6.5	0
	16-49	6.0-12	---	5.6-7.3	0
	49-80	2.0-10	---	5.6-7.8	0
8284A: Tice-----	0-16	20-27	---	6.1-7.8	0
	16-72	16-23	---	5.6-7.8	0
	72-80	9.0-20	---	5.6-7.8	0-10
8288A: Petrolia-----	0-8	20-25	---	5.6-7.8	0
	8-55	15-22	---	5.6-7.3	0
	55-80	10-20	---	5.1-7.8	0
8331A: Haymond-----	0-20	7.0-20	---	5.6-7.8	0
	20-60	5.0-12	---	5.6-7.8	0
	60-80	3.0-16	---	6.1-7.8	0
8333A: Wakeland-----	0-8	7.0-20	---	5.6-7.3	0
	8-68	5.0-15	---	5.6-7.8	0
	68-80	5.0-15	---	5.6-7.8	0

Soil Survey of Pulaski County, Illinois

Table 21.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbonate equiva- lent
	Inches	meq/100 g	meq/100 g	pH	Pct
8334A:					
Birds-----	0-22	11-21	---	5.6-7.8	0
	22-80	11-20	---	5.1-7.8	0
8382A:					
Belknap-----	0-7	7.0-17	---	4.5-7.3	0
	7-59	---	4.0-14	4.5-5.5	0
	59-80	5.0-20	2.0-15	4.5-7.3	0
8420A:					
Piopolis-----	0-7	20-25	15-19	5.1-6.5	0
	7-37	15-20	13-20	4.5-5.5	0
	37-80	10-20	8.0-16	5.1-7.3	0
8422A:					
Cape-----	0-10	20-30	15-22	4.5-7.3	0
	10-22	---	24-40	3.6-5.5	0
	22-80	---	21-40	3.6-5.5	0
8422A+:					
Cape-----	0-16	13-24	9.8-18	4.5-7.3	0
	16-22	---	24-40	3.6-5.5	0
	22-80	---	21-40	3.6-5.5	0
8426A:					
Karnak-----	0-5	28-42	---	5.6-6.5	0
	5-50	24-37	---	5.6-7.3	0
	50-80	21-37	---	5.6-7.8	0
8426A+:					
Karnak-----	0-13	14-21	---	5.6-7.3	0
	13-18	28-42	---	5.6-6.5	0
	18-63	24-37	---	5.6-7.3	0
	63-80	21-37	---	5.6-7.8	0
8597A:					
Armiesburg-----	0-15	14-29	---	6.1-7.8	0
	15-67	15-23	---	6.1-7.8	0-5
	67-80	10-23	---	6.1-7.8	0-10
MW. Miscellaneous water					
W. Water					

Table 22.—Water Features

(See text for definitions of terms used in this table. "Upper limit," "Lower limit," and "Surface water depth" are in feet. Estimates of the frequency of ponding and flooding apply to the whole year rather than to individual months. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft						Ft	Ft	
79B: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79C: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79C2: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79C3: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79D: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79D2: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79D3: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79E: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79E2: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79E3: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
79F: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
164A: Stoy-----	C	---	---	---	---	---	Jan-May Jun-Dec	1.0-3.0 > 6.0	3.0-6.0 > 6.0	Perched ---
164B: Stoy-----	C	---	---	---	---	---	Jan-May Jun-Dec	1.0-3.0 > 6.0	3.0-6.0 > 6.0	Perched ---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft					Ft	Ft		
165A: Weir-----	D	0.0-0.5	Very brief	Occasional	---	---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	1.0-6.0 > 6.0	Perched ---
175B: Lamont-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
214B: Hosmer-----	C	---	---	---	---	---	Jan-Apr May-Dec	1.5-3.5 > 6.0	3.5-6.0 > 6.0	Perched ---
214C: Hosmer-----	C	---	---	---	---	---	Jan-Apr May-Dec	1.5-3.5 > 6.0	3.5-6.0 > 6.0	Perched ---
214C2: Hosmer-----	C	---	---	---	---	---	Jan-Apr May-Dec	1.5-3.5 > 6.0	3.5-6.0 > 6.0	Perched ---
214C3: Hosmer-----	C	---	---	---	---	---	Jan-Apr May-Dec	1.5-3.5 > 6.0	3.5-6.0 > 6.0	Perched ---
214D2: Hosmer-----	C	---	---	---	---	---	Jan-Apr May-Dec	1.5-3.5 > 6.0	3.5-6.0 > 6.0	Perched ---
214D3: Hosmer-----	C	---	---	---	---	---	Jan-Apr May-Dec	1.5-3.5 > 6.0	3.5-6.0 > 6.0	Perched ---
216D2: Stookey-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
216E: Stookey-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
216E2: Stookey-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
216E3: Stookey-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
216F: Stookey-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft						Ft	Ft	
216G: Stookey-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308B: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308C: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308C2: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308C3: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308D: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308D2: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308D3: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308E: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308E2: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308E3: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
308F: Alford-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
453C: Muren-----	B	---	---	---	---	---	Jan-Apr May-Dec	1.0-2.5 > 6.0	> 6.0 > 6.0	Apparent ---
453C3: Muren-----	B	---	---	---	---	---	Jan-Apr May-Dec	1.0-2.5 > 6.0	> 6.0 > 6.0	Apparent ---
453D2: Muren-----	B	---	---	---	---	---	Jan-Apr May-Dec	1.0-2.5 > 6.0	> 6.0 > 6.0	Apparent ---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft						Ft	Ft	
453D3: Muren-----	B	---	---	---	---	---	Jan-Apr May-Dec	1.0-2.5 > 6.0	> 6.0 > 6.0	Apparent ---
477B: Winfield-----	B	---	---	---	---	---	Jan-Apr May-Dec	2.0-3.5 > 6.0	> 6.0 > 6.0	Apparent ---
477C2: Winfield-----	B	---	---	---	---	---	Jan-Apr May-Dec	2.0-3.5 > 6.0	> 6.0 > 6.0	Apparent ---
477C3: Winfield-----	B	---	---	---	---	---	Jan-Apr May-Dec	2.0-3.5 > 6.0	> 6.0 > 6.0	Apparent ---
477D2: Winfield-----	B	---	---	---	---	---	Jan-Apr May-Dec	2.0-3.5 > 6.0	> 6.0 > 6.0	Apparent ---
477D3: Winfield-----	B	---	---	---	---	---	Jan-Apr May-Dec	2.0-3.5 > 6.0	> 6.0 > 6.0	Apparent ---
694D2: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
Baxter-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
694F: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
Baxter-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
717F: Stookey-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
Clarksville-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
717G: Clarksville-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
Stookey-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
801B: Orthents-----	C	---	---	---	---	---	---	> 6.0	> 6.0	---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth Ft	Duration	Frequency	Duration	Frequency		Upper limit Ft	Lower limit Ft	Water table kind
802D: Orthents-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
864. Pits, quarries										
865. Pits, gravel										
1843A: Bonnie-----	D	0.0-2.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 0.0-6.0	> 6.0 > 6.0	Apparent Apparent
Petrolia-----	D	0.0-2.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 0.0-6.0	> 6.0 > 6.0	Apparent Apparent
1845A: Darwin-----	D	0.0-2.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 0.0-6.0	> 6.0 > 6.0	Apparent Apparent
Jacob-----	D	0.0-2.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 0.0-6.0	1.0-6.0 0.0-6.0	Perched Perched
1846A: Karnak-----	D	0.0-2.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 0.0-6.0	> 6.0 > 6.0	Apparent Apparent
Cape-----	D	0.0-2.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 0.0-6.0	> 6.0 > 6.0	Apparent Apparent
3070A: Beaucoup-----	B/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3070L: Beaucoup-----	B/D	0.0-1.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3071A: Darwin-----	C/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3072A: Sharon-----	B	---	---	---	Brief Brief ---	Frequent Frequent ---	Jan-Apr May Jun-Dec	3.0-6.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft					Ft	Ft		
3108A: Bonnie-----	C/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3162L: Gorham-----	B/D	0.0-1.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3180A: Dupo-----	C	--- --- ---	--- --- ---	--- --- ---	Brief Brief ---	Frequent Frequent ---	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	2.0-6.0 > 6.0 > 6.0	Perched --- ---
3284A: Tice-----	B	--- --- ---	--- --- ---	--- --- ---	Brief Brief ---	Frequent Frequent ---	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---
3284L: Tice-----	B	--- --- ---	--- --- ---	--- --- ---	Long Long ---	Frequent Frequent ---	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---
3288A: Petrolia-----	C/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3288L: Petrolia-----	C/D	0.0-1.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3331A: Haymond-----	B	--- ---	--- ---	--- ---	Brief ---	Frequent ---	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	--- ---
3331L: Haymond-----	B	--- ---	--- ---	--- ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	> 6.0 > 6.0	> 6.0 > 6.0	--- ---
3333A: Wakeland-----	C	--- --- ---	--- --- ---	--- --- ---	Brief Brief ---	Frequent Frequent ---	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---
3333L: Wakeland-----	C	--- --- ---	--- --- ---	--- --- ---	Long Long ---	Frequent Frequent ---	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft					Ft	Ft		
3334A: Birds-----	C/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3334L: Birds-----	C/D	0.0-1.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3382A: Belknap-----	C	---	---	---	Brief Brief	Frequent Frequent	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---
3420A: Piopolis-----	C/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3422A: Cape-----	D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3422A+: Cape-----	C/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3426A: Karnak-----	C/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3426A+: Karnak-----	C/D	0.0-1.0 ---	Brief ---	Frequent ---	Brief ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3426L: Karnak-----	C/D	0.0-1.0 ---	Long ---	Frequent ---	Long ---	Frequent ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
3449L: Armiesburg-----	B	---	---	---	Long ---	Frequent ---	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	--- ---
Sarpy-----	A	---	---	---	Long ---	Frequent ---	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	--- ---
3456BL: Ware-----	B	---	---	---	Long ---	Frequent ---	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	--- ---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft						Ft	Ft	
3597L: Armiesburg-----	B	---	---	---	Long	Frequent	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	---
5079B2: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
5079C3: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
5079D3: Menfro-----	B	---	---	---	---	---	---	> 6.0	> 6.0	---
7084A: Okaw-----	D	0.0-0.5	Brief	Frequent	---	Rare	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
7122B: Colp-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	2.0-4.0 > 6.0	> 6.0 > 6.0	Apparent ---
7122C2: Colp-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	2.0-4.0 > 6.0	> 6.0 > 6.0	Apparent ---
7122D2: Colp-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	2.0-4.0 > 6.0	> 6.0 > 6.0	Apparent ---
7131A: Alvin-----	B	---	---	---	---	Rare	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	---
7131B: Alvin-----	B	---	---	---	---	Rare	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	---
7131C: Alvin-----	B	---	---	---	---	Rare	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	---
7131C2: Alvin-----	B	---	---	---	---	Rare	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft					Ft	Ft		
7131D2: Alvin-----	B	---	---	---	---	Rare	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	---
7338A: Hurst-----	D	---	---	---	---	Rare	Jan-May Jun-Dec	1.0-3.0 > 6.0	> 6.0 > 6.0	Apparent ---
7338B: Hurst-----	D	---	---	---	---	Rare	Jan-May Jun-Dec	1.0-3.0 > 6.0	> 6.0 > 6.0	Apparent ---
7401A: Okaw-----	D	0.0-0.5 ---	Brief ---	Frequent ---	---	Rare	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
7460A: Ginat-----	D	0.0-0.5 ---	Brief ---	Occasional ---	---	Rare	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	1.0-6.0 > 6.0	Perched ---
7462A: Sciotoville-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	1.5-3.0 > 6.0	3.0-6.0 > 6.0	Perched ---
7462B: Sciotoville-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	1.5-3.0 > 6.0	3.0-6.0 > 6.0	Perched ---
7462C2: Sciotoville-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	1.5-3.0 > 6.0	3.0-6.0 > 6.0	Perched ---
7462C3: Sciotoville-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	1.5-3.0 > 6.0	3.0-6.0 > 6.0	Perched ---
7462D2: Sciotoville-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	1.5-3.0 > 6.0	3.0-6.0 > 6.0	Perched ---
7462D3: Sciotoville-----	C	---	---	---	---	Rare	Jan-Apr May-Dec	1.5-3.0 > 6.0	3.0-6.0 > 6.0	Perched ---
7463A: Wheeling-----	B	---	---	---	---	Rare	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth	Duration	Frequency	Duration	Frequency		Upper limit	Lower limit	Water table kind
		Ft					Ft	Ft		
7463B: Wheeling-----	B	---	---	---	---	Rare	Jan-May	> 6.0	> 6.0	---
		---	---	---	---	---	Jun-Dec	> 6.0	> 6.0	---
7463C2: Wheeling-----	B	---	---	---	---	Rare	Jan-May	> 6.0	> 6.0	---
		---	---	---	---	---	Jun-Dec	> 6.0	> 6.0	---
7463D3: Wheeling-----	B	---	---	---	---	Rare	Jan-May	> 6.0	> 6.0	---
		---	---	---	---	---	Jun-Dec	> 6.0	> 6.0	---
7711A: Hatfield-----	C	---	---	---	---	Rare	Jan-May	0.5-2.0	2.0-6.0	Perched
		---	---	---	---	---	Jun-Dec	> 6.0	> 6.0	---
7711B: Hatfield-----	C	---	---	---	---	Rare	Jan-May	0.5-2.0	2.0-6.0	Perched
		---	---	---	---	---	Jun-Dec	> 6.0	> 6.0	---
8070A: Beaucoup-----	B	0.0-0.5	Brief	Occasional	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8071A: Darwin-----	C/D	0.0-0.5	Brief	Occasional	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8072A: Sharon-----	B	---	---	---	Brief	Occasional	Jan-Apr	3.0-6.0	> 6.0	Apparent
		---	---	---	Brief	Occasional	May	> 6.0	> 6.0	---
		---	---	---	---	---	Jun-Dec	> 6.0	> 6.0	---
8085A: Jacob-----	C/D	0.0-0.5	Brief	Occasional	Brief	Occasional	Jan-Jun	0.0-1.0	1.0-6.0	Perched
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8108A: Bonnie-----	C/D	0.0-0.5	Brief	Occasional	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8109A: Raccoon-----	C/D	0.0-0.5	Brief	Occasional	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth Ft	Duration	Frequency	Duration	Frequency		Upper limit Ft	Lower limit Ft	Water table kind
8162A: Gorham-----	B	0.0-0.5 ---	Brief ---	Occasional ---	Brief ---	Occasional ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
8178A: Ruark-----	B/D	0.0-0.5 ---	Brief ---	Occasional ---	Brief ---	Occasional ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
8180A: Dupo-----	C	--- --- ---	--- --- ---	--- --- ---	Brief Brief ---	Occasional Occasional ---	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	2.0-6.0 > 6.0 > 6.0	Perched --- ---
8184A: Roby-----	C	--- --- ---	--- --- ---	--- --- ---	Brief Brief ---	Occasional Occasional ---	Jan-May June Jul-Dec	1.0-3.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---
8184B: Roby-----	C	--- --- ---	--- --- ---	--- --- ---	Brief Brief ---	Occasional Occasional ---	Jan-May June Jul-Dec	1.0-3.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---
8284A: Tice-----	B	--- --- ---	--- --- ---	--- --- ---	Brief Brief ---	Occasional Occasional ---	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---
8288A: Petrolia-----	C/D	0.0-0.5 ---	Brief ---	Occasional ---	Brief ---	Occasional ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---
8331A: Haymond-----	B	--- --- ---	--- --- ---	--- --- ---	Brief ---	Occasional ---	Jan-May Jun-Dec	> 6.0 > 6.0	> 6.0 > 6.0	--- ---
8333A: Wakeland-----	C	--- --- ---	--- --- ---	--- --- ---	Brief Brief ---	Occasional Occasional ---	Jan-May June Jul-Dec	0.5-2.0 > 6.0 > 6.0	> 6.0 > 6.0 > 6.0	Apparent --- ---
8334A: Birds-----	C/D	0.0-0.5 ---	Brief ---	Occasional ---	Brief ---	Occasional ---	Jan-Jun Jul-Dec	0.0-1.0 > 6.0	> 6.0 > 6.0	Apparent ---

Table 22.—Water Features—Continued

Map symbol and soil name	Hydro- logic group	Ponding			Flooding		Month	Water table depth		
		Surface water depth Ft	Duration	Frequency	Duration	Frequency		Upper limit Ft	Lower limit Ft	Water table kind
8382A: Belknap-----	C/D	---	---	---	Brief	Occasional	Jan-May	0.5-2.0	> 6.0	Apparent
		---	---	---	Brief	Occasional	June	> 6.0	> 6.0	---
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8420A: Piopolis-----	C/D	0.0-0.5	Brief	Occasional	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8422A: Cape-----	C/D	0.0-1.0	Brief	Frequent	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8422A+: Cape-----	C/D	0.0-1.0	Brief	Frequent	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8426A: Karnak-----	C/D	0.0-0.5	Brief	Occasional	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8426A+: Karnak-----	C/D	0.0-0.5	Brief	Occasional	Brief	Occasional	Jan-Jun	0.0-1.0	> 6.0	Apparent
		---	---	---	---	---	Jul-Dec	> 6.0	> 6.0	---
8597A: Armiesburg-----	B	---	---	---	Brief	Occasional	Jan-May	> 6.0	> 6.0	---
		---	---	---	---	---	Jun-Dec	> 6.0	> 6.0	---
MW. Miscellaneous water										
W. Water										

Soil Survey of Pulaski County, Illinois

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)

Map symbol and soil name	Restrictive layer			Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Hardness		Uncoated steel	Concrete
		In				
79B: Menfro-----	---	---	---	High	Low	Moderate
79C: Menfro-----	---	---	---	High	Low	Moderate
79C2: Menfro-----	---	---	---	High	Low	Moderate
79C3: Menfro-----	---	---	---	High	Low	Moderate
79D: Menfro-----	---	---	---	High	Low	Moderate
79D2: Menfro-----	---	---	---	High	Low	Moderate
79D3: Menfro-----	---	---	---	High	Low	Moderate
79E: Menfro-----	---	---	---	High	Low	Moderate
79E2: Menfro-----	---	---	---	High	Low	Moderate
79E3: Menfro-----	---	---	---	High	Low	Moderate
79F: Menfro-----	---	---	---	High	Low	Moderate
164A: Stoy-----	---	---	---	High	High	High
164B: Stoy-----	---	---	---	High	High	High
165A: Weir-----	---	---	---	High	High	High
175B: Lamont-----	---	---	---	Moderate	Low	Moderate
214B: Hosmer-----	Fragipan	20-36	Weakly cemented	High	Moderate	High
214C: Hosmer-----	Fragipan	20-36	Weakly cemented	High	Moderate	High
214C2: Hosmer-----	Fragipan	20-36	Weakly cemented	High	Moderate	High
214C3: Hosmer-----	Fragipan	20-36	Weakly cemented	High	Moderate	High

Soil Survey of Pulaski County, Illinois

Table 23.—Soil Features—Continued

Map symbol and soil name	Restrictive layer			Potential for frost action	Risk of corrosion	
	Kind	Depth to top <u>In</u>	Hardness		Uncoated steel	Concrete
214D2: Hosmer-----	Fragipan	20-36	Weakly cemented	High	Moderate	High
214D3: Hosmer-----	Fragipan	20-36	Weakly cemented	High	Moderate	High
216D2: Stookey-----	---	---	---	High	Low	Moderate
216E: Stookey-----	---	---	---	High	Low	Moderate
216E2: Stookey-----	---	---	---	High	Low	Moderate
216E3: Stookey-----	---	---	---	High	Low	Moderate
216F: Stookey-----	---	---	---	High	Low	Moderate
216G: Stookey-----	---	---	---	High	Low	Moderate
308B: Alford-----	---	---	---	High	Moderate	High
308C: Alford-----	---	---	---	High	Moderate	High
308C2: Alford-----	---	---	---	High	Moderate	High
308C3: Alford-----	---	---	---	High	Moderate	High
308D: Alford-----	---	---	---	High	Moderate	High
308D2: Alford-----	---	---	---	High	Moderate	High
308D3: Alford-----	---	---	---	High	Moderate	High
308E: Alford-----	---	---	---	High	Moderate	High
308E2: Alford-----	---	---	---	High	Moderate	High
308E3: Alford-----	---	---	---	High	Moderate	High
308F: Alford-----	---	---	---	High	Moderate	High
453C: Muren-----	---	---	---	High	High	Moderate

Soil Survey of Pulaski County, Illinois

Table 23.—Soil Features—Continued

Map symbol and soil name	Restrictive layer			Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Hardness		Uncoated steel	Concrete
		In				
453C3: Muren-----	---	---	---	High	High	Moderate
453D2: Muren-----	---	---	---	High	High	Moderate
453D3: Muren-----	---	---	---	High	High	Moderate
477B: Winfield-----	---	---	---	High	Moderate	Moderate
477C2: Winfield-----	---	---	---	High	Moderate	Moderate
477C3: Winfield-----	---	---	---	High	Moderate	Moderate
477D2: Winfield-----	---	---	---	High	Moderate	Moderate
477D3: Winfield-----	---	---	---	High	Moderate	Moderate
694D2: Menfro-----	---	---	---	High	Low	Moderate
Baxter-----	Lithic bedrock	60-120	Indurated	None	High	High
694F: Menfro-----	---	---	---	High	Low	Moderate
Baxter-----	Lithic bedrock	60-120	Indurated	None	High	High
717F: Stookey-----	---	---	---	High	Low	Moderate
Clarksville-----	---	---	---	Moderate	Low	High
717G: Clarksville-----	---	---	---	Moderate	Low	High
Stookey-----	---	---	---	High	Low	Moderate
801B: Orthents-----	---	---	---	High	High	Moderate
802D: Orthents-----	---	---	---	Moderate	Moderate	Moderate
864. Pits, quarries						
865. Pits, gravel						
1843A: Bonnie-----	---	---	---	High	High	High
Petrolia-----	---	---	---	High	High	Low

Soil Survey of Pulaski County, Illinois

Table 23.—Soil Features—Continued

Map symbol and soil name	Restrictive layer			Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Hardness		Uncoated steel	Concrete
		In				
1845A: Darwin-----	---	---	---	Moderate	High	Low
Jacob-----	---	---	---	Moderate	High	High
1846A: Karnak-----	---	---	---	High	High	Moderate
Cape-----	---	---	---	High	High	High
3070A: Beaucoup-----	---	---	---	High	High	Low
3070L: Beaucoup-----	---	---	---	High	High	Low
3071A: Darwin-----	---	---	---	Moderate	High	Low
3072A: Sharon-----	---	---	---	High	Low	High
3108A: Bonnie-----	---	---	---	High	High	High
3162L: Gorham-----	---	---	---	High	High	Low
3180A: Dupo-----	Abrupt textural change	20-40	Noncemented	High	High	Moderate
3284A: Tice-----	---	---	---	High	High	Low
3284L: Tice-----	---	---	---	High	High	Low
3288A: Petrolia-----	---	---	---	High	High	Low
3288L: Petrolia-----	---	---	---	High	High	Low
3331A: Haymond-----	---	---	---	High	Low	Low
3331L: Haymond-----	---	---	---	High	Low	Low
3333A: Wakeland-----	---	---	---	High	High	Low
3333L: Wakeland-----	---	---	---	High	High	Low
3334A: Birds-----	---	---	---	High	High	Moderate

Soil Survey of Pulaski County, Illinois

Table 23.—Soil Features—Continued

Map symbol and soil name	Restrictive layer			Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Hardness		Uncoated steel	Concrete
		In				
3334L: Birds-----	---	---	---	High	High	Moderate
3382A: Belknap-----	---	---	---	High	High	High
3420A: Piopolis-----	---	---	---	High	High	High
3422A: Cape-----	---	---	---	High	High	High
3422A+: Cape-----	---	---	---	High	High	High
3426A: Karnak-----	---	---	---	High	High	Moderate
3426A+: Karnak-----	---	---	---	High	High	Moderate
3426L: Karnak-----	---	---	---	High	High	Moderate
3449L: Armiesburg-----	---	---	---	High	Moderate	Low
Sarpy-----	---	---	---	Low	Low	Low
3456BL: Ware-----	---	---	---	Moderate	Low	Low
3597L: Armiesburg-----	---	---	---	High	Moderate	Low
5079B2: Menfro-----	---	---	---	High	Low	Moderate
5079C3: Menfro-----	---	---	---	High	Low	Moderate
5079D3: Menfro-----	---	---	---	High	Low	Moderate
7084A: Okaw-----	Abrupt textural change	10-20	---	High	High	High
7122B: Colp-----	---	---	---	High	High	High
7122C2: Colp-----	---	---	---	High	High	High
7122D2: Colp-----	---	---	---	High	High	High
7131A: Alvin-----	---	---	---	Moderate	Low	High

Soil Survey of Pulaski County, Illinois

Table 23.—Soil Features—Continued

Map symbol and soil name	Restrictive layer			Potential for frost action	Risk of corrosion	
	Kind	Depth to top <u>In</u>	Hardness		Uncoated steel	Concrete
7131B: Alvin-----	---	---	---	Moderate	Low	High
7131C: Alvin-----	---	---	---	Moderate	Low	High
7131C2: Alvin-----	---	---	---	Moderate	Low	High
7131D2: Alvin-----	---	---	---	Moderate	Low	High
7338A: Hurst-----	---	---	---	Moderate	High	High
7338B: Hurst-----	---	---	---	Moderate	High	High
7401A: Okaw-----	Abrupt textural change	10-20	---	High	High	High
7460A: Ginat-----	---	---	---	High	High	High
7462A: Sciotoville-----	---	---	---	High	Moderate	High
7462B: Sciotoville-----	---	---	---	High	Moderate	High
7462C2: Sciotoville-----	---	---	---	High	Moderate	High
7462C3: Sciotoville-----	---	---	---	High	Moderate	High
7462D2: Sciotoville-----	---	---	---	High	Moderate	High
7462D3: Sciotoville-----	---	---	---	High	Moderate	High
7463A: Wheeling-----	---	---	---	Moderate	Low	Moderate
7463B: Wheeling-----	---	---	---	Moderate	Low	Moderate
7463C2: Wheeling-----	---	---	---	Moderate	Low	Moderate
7463D3: Wheeling-----	---	---	---	Moderate	Low	Moderate
7711A: Hatfield-----	---	---	---	High	High	High
7711B: Hatfield-----	---	---	---	High	High	High

Soil Survey of Pulaski County, Illinois

Table 23.—Soil Features—Continued

Map symbol and soil name	Restrictive layer			Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Hardness		Uncoated steel	Concrete
		In				
8070A: Beaucoup-----	---	---	---	High	High	Low
8071A: Darwin-----	---	---	---	Moderate	High	Low
8072A: Sharon-----	---	---	---	High	Low	High
8085A: Jacob-----	---	---	---	Moderate	High	High
8108A: Bonnie-----	---	---	---	High	High	High
8109A: Raccoon-----	---	---	---	High	High	High
8162A: Gorham-----	---	---	---	High	High	Low
8178A: Ruark-----	---	---	---	High	High	High
8180A: Dupo-----	Abrupt textural change	20-40	---	High	High	Moderate
8184A: Roby-----	---	---	---	High	Moderate	High
8184B: Roby-----	---	---	---	High	Moderate	High
8284A: Tice-----	---	---	---	High	High	Low
8288A: Petrolia-----	---	---	---	High	High	Low
8331A: Haymond-----	---	---	---	High	Low	Low
8333A: Wakeland-----	---	---	---	High	High	Low
8334A: Birds-----	---	---	---	High	High	Moderate
8382A: Belknap-----	---	---	---	High	High	High
8420A: Piopolis-----	---	---	---	High	High	High
8422A: Cape-----	---	---	---	High	High	High
8422A+: Cape-----	---	---	---	High	High	High

Soil Survey of Pulaski County, Illinois

Table 23.—Soil Features—Continued

Map symbol and soil name	Restrictive layer			Potential for frost action	Risk of corrosion	
	Kind	Depth to top <u>In</u>	Hardness		Uncoated steel	Concrete
8426A: Karnak-----	---	---	---	High	High	Moderate
8426A+: Karnak-----	---	---	---	High	High	Moderate
8597A: Armiesburg-----	---	---	---	High	Moderate	Low
MW. Miscellaneous water						
W. Water						

Soil Survey of Pulaski County, Illinois

Table 24.—Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series)

Soil name	Family or higher taxonomic class
Alford-----	Fine-silty, mixed, superactive, mesic Ultic Hapludalfs
Alvin-----	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Armiesburg-----	Fine-silty, mixed, superactive, mesic Fluventic Hapludolls
Baxter-----	Fine, mixed, semiactive, mesic Typic Paleudalfs
Beaucoup-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls
Belknap-----	Coarse-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Birds-----	Fine-silty, mixed, superactive, nonacid, mesic Typic Fluvaquents
Bonnie-----	Fine-silty, mixed, active, acid, mesic Typic Fluvaquents
Cape-----	Fine, smectitic, acid, mesic Vertic Endoaquepts
Clarksville-----	Loamy-skeletal, siliceous, semiactive, mesic Typic Paleudults
Colp-----	Fine, smectitic, mesic Aquertic Chromic Hapludalfs
Darwin-----	Fine, smectitic, mesic Fluvaquentic Vertic Endoaquolls
Dupo-----	Coarse-silty over clayey, mixed over smectitic, superactive, nonacid, mesic Aquic Udifluvents
*Ginat-----	Fine-silty, mixed, active, mesic Fragic Epiaqualfs
Gorham-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Endoaquolls
Hatfield-----	Fine-silty, mixed, active, mesic Aeric Fragic Epiaqualfs
Haymond-----	Coarse-silty, mixed, superactive, mesic Dystric Fluventic Eutrudepts
Hosmer-----	Fine-silty, mixed, active, mesic Oxyaquic Fragiudalfs
Hurst-----	Fine, smectitic, mesic Aeric Chromic Vertic Epiaqualfs
Jacob-----	Very fine, smectitic, acid, mesic Vertic Endoaquepts
Karnak-----	Fine, smectitic, nonacid, mesic Vertic Endoaquepts
Lamont-----	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Menfro-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Muren-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Okaw-----	Fine, smectitic, mesic Chromic Vertic Albaqualfs
Orthents, loamy-	Fine-loamy, mixed, active, nonacid, mesic Typic Udorthents
Orthents, silty-	Fine-silty, mixed, superactive, nonacid, mesic Typic Udorthents
Petrolia-----	Fine-silty, mixed, superactive, nonacid, mesic Fluvaquentic Endoaquepts
Piopolis-----	Fine-silty, mixed, active, acid, mesic Fluvaquentic Endoaquepts
Racoon-----	Fine-silty, mixed, superactive, mesic Typic Endoaqualfs
Roby-----	Coarse-loamy, mixed, superactive, mesic Aquic Hapludalfs
Ruark-----	Fine-loamy, mixed, active, mesic Typic Endoaqualfs
Sarpy-----	Mixed, mesic Typic Udipsamments
*Sciotoville-----	Fine-loamy, mixed, active, mesic Fragiaquic Hapludalfs
Sharon-----	Coarse-silty, mixed, active, acid, mesic Oxyaquic Udifluvents
Stookey-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Stoy-----	Fine-silty, mixed, superactive, mesic Fragiaquic Hapludalfs
Tice-----	Fine-silty, mixed, superactive, mesic Fluvaquentic Hapludolls
Wakeland-----	Coarse-silty, mixed, superactive, nonacid, mesic Aeric Fluvaquents
Ware-----	Coarse-loamy, mixed, active, thermic Fluventic Hapludolls
Weir-----	Fine, smectitic, mesic Typic Endoaqualfs
Wheeling-----	Fine-loamy, mixed, active, mesic Ultic Hapludalfs
Winfield-----	Fine-silty, mixed, superactive, mesic Oxyaquic Hapludalfs

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