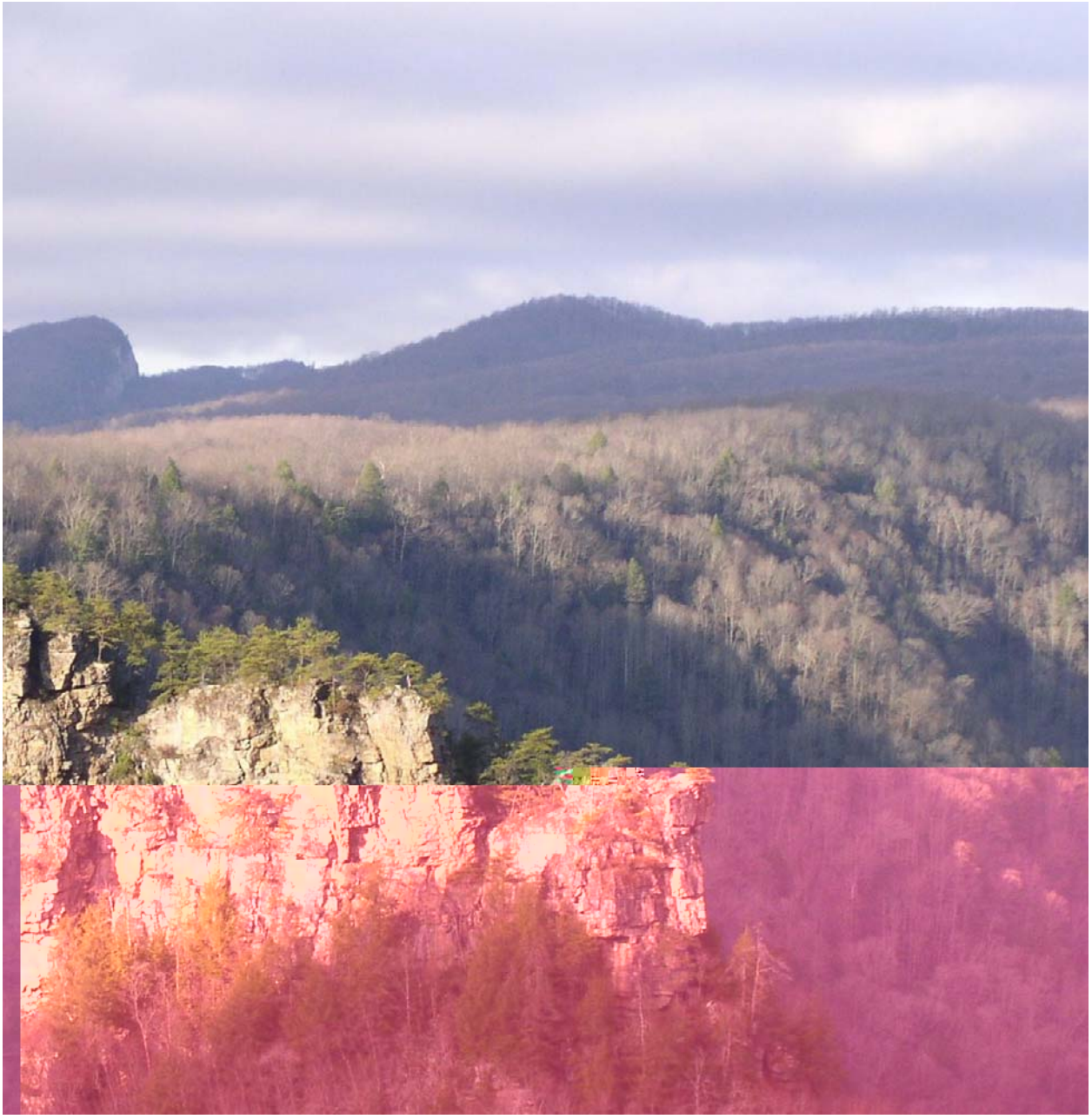
Soil Survey of Dickenson County, Virginia



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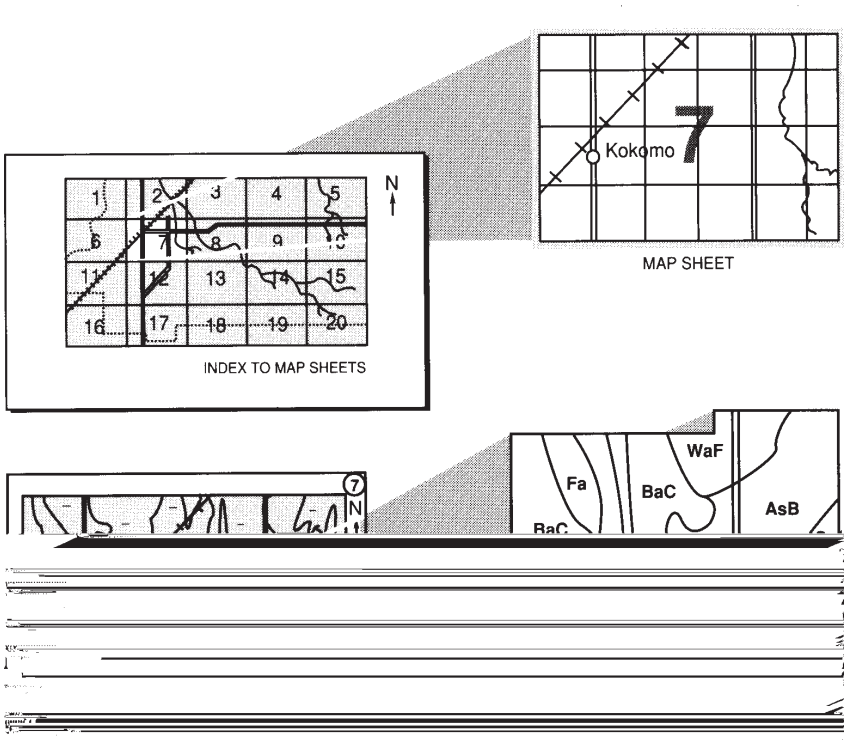

National Cooperative Soil Survey

Nondiscrimination Statement

Cover caption:

Additional information about the Nation's natural resources is available online from the Natural Resources Conservation Service at http://www.nrcs.usda.gov.

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Foreword

Soil Survey of
Dickenson County, Virginia

General Nature of the Survey Area

Early History

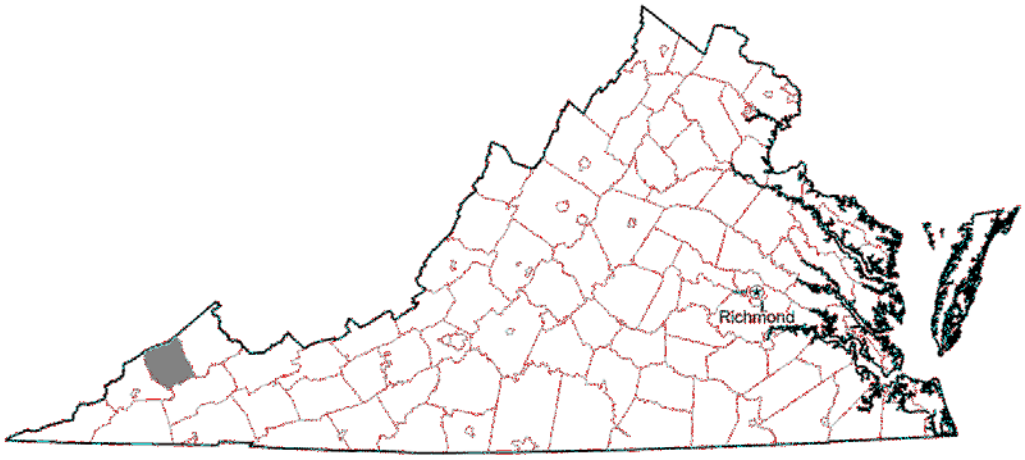

Figure 1.—Location of Dickenson County in Virginia.

Land Use

Water Resources

Climate

How This Survey Was Made

Detailed Soil Map Units

soil series

soil phases

complex

undifferentiated group

miscellaneous areas

1D—Alticrest fine sandy loam, 15 to 35 percent slopes, rocky

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Typical Profile

Organic layer:

Surface layer:

Subsoil:

Substratum:

Hard bedrock:

Minor Components

Dissimilar components:

Similar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Cropland

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Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

1E—Alticrest fine sandy loam, 35 to 55 percent slopes, rocky

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Typical Profile

Organic layer:

Surface layer:

Subsoil:

Substratum:

Hard bedrock:

Minor Components

Dissimilar components:

Similar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

2C—Cedarcreek-Sewell-Rock outcrop complex, 0 to 15 percent slopes, very stony

Setting

Major land resource area:
Landform:
Position on the landform:

Note:

Map Unit Composition

Note: These Cedarcreek and Sewell soils and Rock outcrop occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Cedarcreek

Surface layer:

Substratum:

Sewell

Surface layer:

Figure 2.—A single surface-mine bench and highwall in a nonwooded area of Cedarcreek-Sewell-Rock outcrop complex, 0 to 15 percent slopes, very stony.

Substratum:

Rock outcrop

Minor Components

Similar components:

Dissimilar components:

Properties and Qualities of the Cedarcreek and Sewell Soils

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:

Hydric soils:

3E—Cloverlick-Shelocta complex, 35 to 55 percent slopes, very stony

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Note: These Cloverlick and Shelocta soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Cloverlick

Organic layer:

Surface layer:

Subsoil:

Substratum:

Shelocta

Organic layer:

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Dissimilar soils:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:

Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

3F—Cloverlick-Shelocta complex, 55 to 70 percent slopes, very stony

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Note: These Cloverlick and Shelocta soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Cloverlick

Organic layer:

Surface layer:

Subsoil:

Substratum:

Shelocta

Organic layer:

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

4C—Cotaco loam, 8 to 15 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Typical Profile

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Water table kind:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

5B—Craigsville fine sandy loam, 0 to 5 percent slopes, frequently flooded

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Typical Profile

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Figure 3.—A flood plain in an area of Craigsville fine sandy loam, 0 to 5 percent slopes, frequently flooded.

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

6—Dumps, mine-Urban land complex

Setting

Major land resource area:
Landform:
Position on the landform:

Note:

Map Unit Composition

Figure 4.—An area of Dumps, mine-Urban land complex is in the foreground. The wooded areas are Gilpin-Berks complex, 35 to 70 percent slopes.

Definition

Dumps, mine

Urban land

Use and Management Considerations

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

7D—Gilpin silt loam, 15 to 35 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Typical Profile

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:

Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

8C—Gilpin-Berks complex, 8 to 15 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Gilpin and Berks soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Berks

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

8D—Gilpin-Berks complex, 15 to 25 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Gilpin and Berks soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Berks

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

8E—Gilpin-Berks complex, 25 to 35 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Gilpin and Berks soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Berks

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

8F—Gilpin-Berks complex, 35 to 70 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Gilpin and Berks soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Berks

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

9A—Grigsby fine sandy loam, 0 to 3 percent slopes, occasionally flooded

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Typical Profile

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Water table kind:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

10D—Highsplint channery silt loam, 15 to 35 percent slopes, very stony

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Typical Profile

Organic layer:

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

11E—Highsplint-Shelocta complex, 35 to 55 percent slopes, very stony

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Note: These Highsplint and Shelocta soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Highsplint

Organic layer:

Surface layer:

Subsoil:

Substratum:

Shelocta

Organic layer:

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

11F—Highsplint-Shelocta complex, 55 to 70 percent slopes, very stony

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Note: These Highsplint and Shelocta soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Highsplint

Organic layer:

Surface layer:

Subsoil:

Substratum:

Shelocta

Organic layer:

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

12F—Itmann gravelly loam, 0 to 80 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Note:

Map Unit Composition

Typical Profile

Surface layer:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Distinctive soil property:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

13D—Kaymine very channery silt loam, 15 to 35 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Typical Profile

Surface layer:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Distinctive soil property:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

14E—Kaymine-Cedarcreek complex, 35 to 55 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Typical Profile

Kaymine

Surface layer:

Substratum:

Cedarcreek

Surface layer:

Substratum:

Minor Components

Similar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Distinctive soil property:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

15F—Kaymine, Cedarcreek, and Fiveblock soils, 55 to 80 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Note: This map unit consists of three soils, which are not consistently associated geographically and, therefore, do not always occur together in the same map delineation. Individual areas of this unit are made up of the Cedarcreek soil, the Fiveblock soil, or the Kaymine soil, or any combination of these soils. These soils were mapped together because there are no major differences in their use and management.

Typical Profile

Kaymine

Surface layer:

Substratum:

Cedarcreek

Surface layer:

Substratum:

Fiveblock

Surface layer:

Substratum:

Minor Components

Similar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:

Depth to root-restrictive feature:
Drainage class:

Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Distinctive soil property:

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Figure 6.—A broad summit area of Kaymine-Fiveblock-Cedarcreek complex, 0 to 15 percent slopes, extremely stony.

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

16C—Kaymine-Fiveblock-Cedarcreek complex, 0 to 15 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:
Note:

Map Unit Composition

Note: These Kaymine, Fiveblock, and Cedarcreek soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Kaymine

Surface layer:

Substratum:

Fiveblock

Surface layer:

Substratum:

Cedarcreek

Surface layer:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:
Depth to root-restrictive feature:
Drainage class:

Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Distinctive soil property:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

17F—Kaymine-Sewell-Rock outcrop complex, 0 to 80 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:

Note:

Map Unit Composition

Note: These Kaymine and Sewell soils and Rock outcrop occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Kaymine

Surface layer:

Substratum:

Sewell

Surface layer:

Substratum:

Rock outcrop

Minor Components

Similar components:

Dissimilar components:

Properties and Qualities of the Kaymine and Sewell Soils

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:

Hydric soils:

18C—Marrowbone-Gilpin complex, 8 to 15 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Marrowbone and Gilpin soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Marrowbone

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:

Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

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Interpretive Groups

Prime farmland:
Land capability class:

Virginia soil management group:
Hydric soils:

18D—Marrowbone-Gilpin complex, 15 to 25 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Marrowbone and Gilpin soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Marrowbone

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

18E—Marrowbone-Gilpin complex, 25 to 35 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Marrowbone and Gilpin soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Marrowbone

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

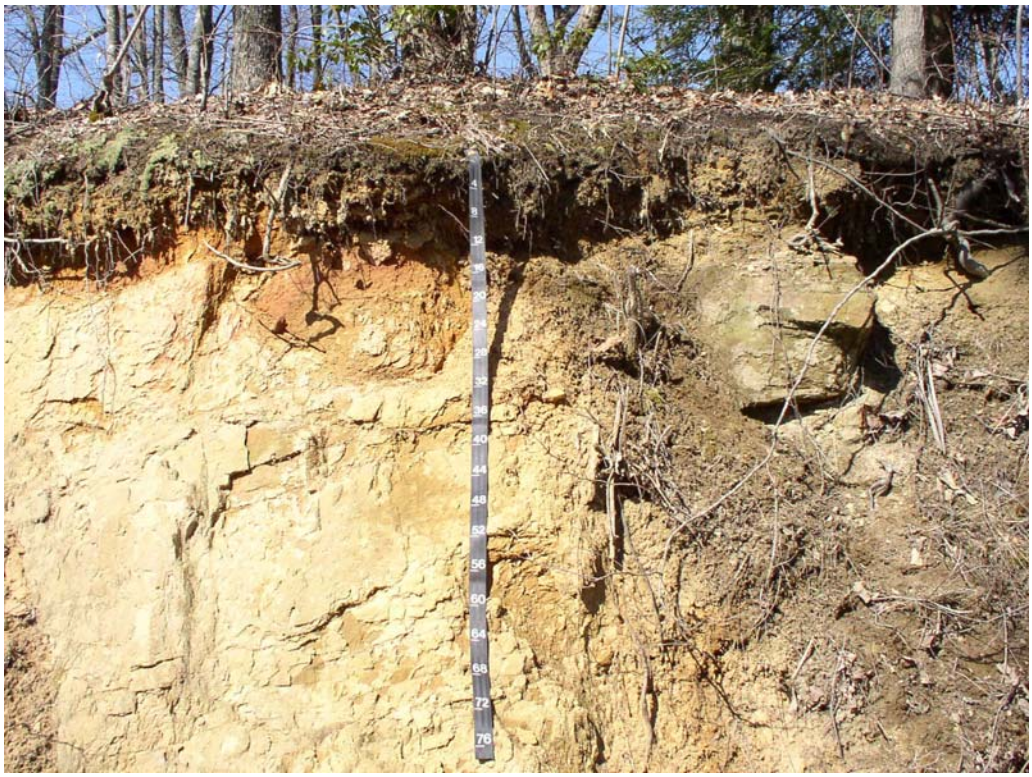

Figure 7.—Bedrock in an area of Marrowbone-Gilpin complex, 25 to 35 percent slopes. Depth is marked in inches.

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

18F—Marrowbone-Gilpin complex, 35 to 70 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Marrowbone and Gilpin soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Marrowbone

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

19F—Matewan-Gilpin-Rock outcrop complex, 35 to 80 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Matewan and Gilpin soils and Rock outcrop occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Matewan

Organic layer:

Surface layer:

Subsoil:

Substratum:

Hard bedrock:

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Rock outcrop

Minor Components

Similar components:

Dissimilar components:

Properties and Qualities of the Matewan and Gilpin Soils

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:
Depth to root-restrictive feature:

Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

20A—Philo fine sandy loam, 0 to 3 percent slopes, occasionally flooded

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Figure 8.—A flood plain in an area of Philo fine sandy loam, 0 to 3 percent slopes, occasionally flooded.

Typical Profile

Surface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Water table kind:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:

Figure 9.—Outcrop of sandstone on Pine Mountain in an area of Ramsey-Alticrest-Rock outcrop complex, 35 to 80 percent slopes.

Land capability class:
Virginia soil management group:
Hydric soil:

21F—Ramsey-Alticrest-Rock outcrop complex, 35 to 80 percent slopes

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: These Ramsey and Alticrest soils and Rock outcrop occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Ramsey

Organic layer:

Surface layer:

Subsurface layer:

Subsoil:

Hard bedrock:

Alticrest

Organic layer:

Surface layer:

Subsoil:

Substratum:

Hard bedrock:

Rock outcrop

Minor Components

Similar components:

Dissimilar components:

Properties and Qualities of the Ramsey and Alticrest Soils

Available water capacity:

Slowest saturated hydraulic conductivity:

Depth class:

Depth to root-restrictive feature:

Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:

Hydric soils:

22E—Sewell channery sandy loam, 35 to 55 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:

Note:

Map Unit Composition

Typical Profile

Surface layer:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:

Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Distinctive soil property:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

22F—Sewell channery sandy loam, 55 to 80 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:

Note:

Map Unit Composition

Typical Profile

Surface layer:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Distinctive soil property:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

23F—Shelocta-Cedarcreek complex, 55 to 80 percent slopes, very bouldery

Setting

Major land resource area:
Landform:

Position on the landform:
Note:

Map Unit Composition

Note: These Shelocta and Cedarcreek soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Shelocta

Organic layer:

Surface layer:

Subsoil:

Substratum:

Cedarcreek

Surface layer:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Distinctive soil property:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

24E—Shelocta-Gilpin complex, 35 to 55 percent slopes, very stony

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Typical Profile

Shelocta

Organic layer:

Surface layer:

Subsoil:

Substratum:

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:

Depth to root-restrictive feature:

Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

24F—Shelocta-Gilpin complex, 55 to 70 percent slopes, very stony

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Typical Profile

Shelocta

Organic layer:

Surface layer:

Subsoil:

Substratum:

Gilpin

Organic layer:

Surface layer:

Subsoil:

Substratum:

Soft bedrock:

Hard bedrock:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:

Depth to root-restrictive feature:

Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

25F—Shelocta-Kaymine complex, 55 to 80 percent slopes, very bouldery

Setting

Major land resource area:
Landform:

Position on the landform:
Note:

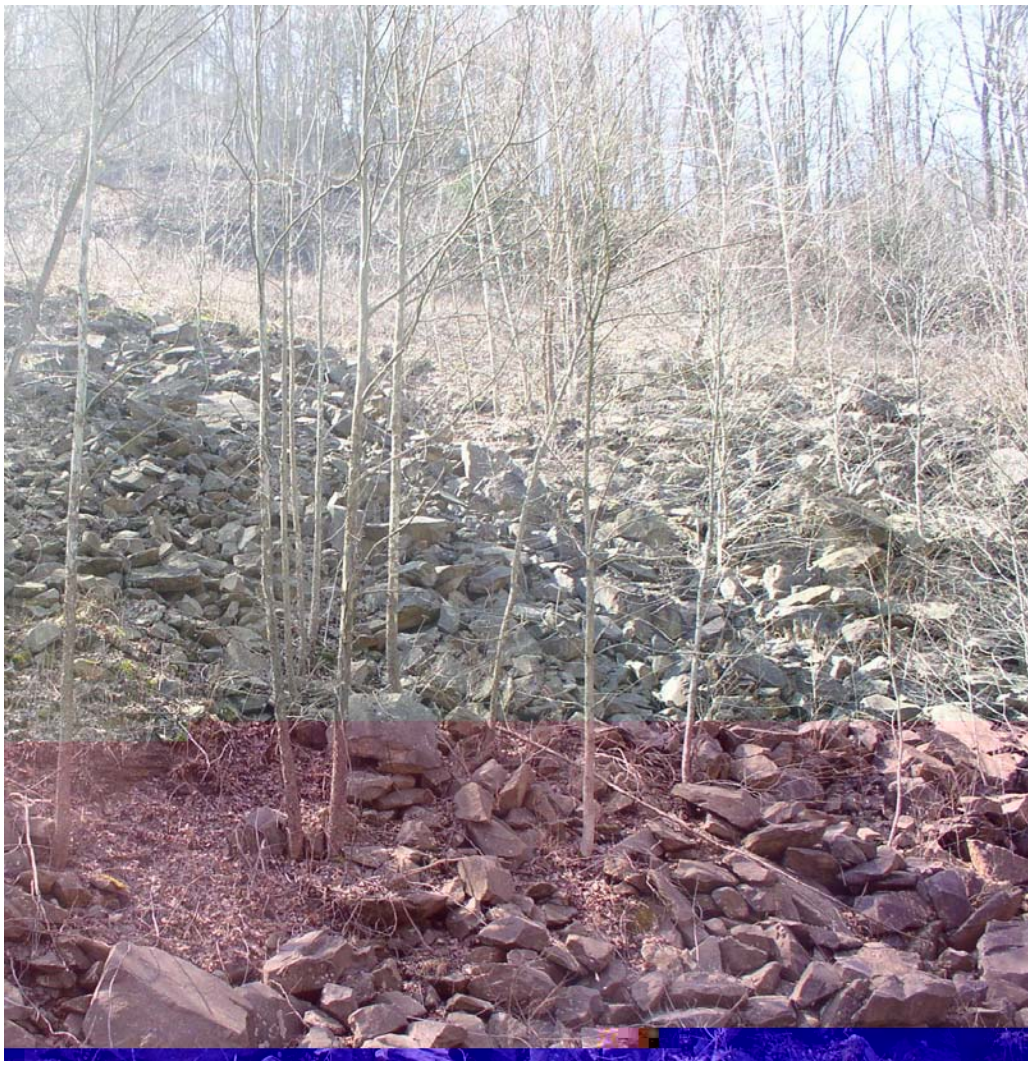

Figure 10.—Surface-mine overburden in an area mapped as Shelocta-Kaymine complex, 55 to 80 percent slopes, very bouldery.

Map Unit Composition

Note: These Shelocta and Kaymine soils occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Shelocta

Organic layer:

Surface layer:

Subsoil:

Substratum:

Kaymine

Surface layer:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:

Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Distinctive soil property:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

26F—Stonecoal extremely channery sandy loam, 0 to 80 percent slopes

Setting

Major land resource area:
Landform:

Map Unit Composition

Typical Profile

Substratum:

Minor Components

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Distinctive soil property:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

27—Udorthents-Urban land complex, 0 to 80 percent slopes

Setting

Major land resource area:
Landform:

Position on the landform:

Map Unit Composition

Note: Udorthents and Urban land occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Definition

Udorthents

Urban land

Use and Management Considerations

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

28—Udorthents-Urban land complex, occasionally flooded

Setting

Major land resource area:
Landform:

Position on the landform:

Map Unit Composition

Note: Udorthents and Urban land occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Definition

Udorthents

Urban land

Use and Management Considerations

Interpretive Groups

Prime farmland:

Land capability class:
Virginia soil management group:
Hydric soils:

29D—Varilla gravelly sandy loam, 15 to 35 percent slopes, extremely stony

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Typical Profile

Organic layer:

Surface layer:

Subsurface layer:

Subsoil:

Substratum:

Minor Components

Similar components:

Dissimilar components:

Soil Properties and Qualities

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:
Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soil:

30D—Varilla-Rock outcrop complex, 15 to 35 percent slopes, extremely bouldery

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: This Varilla soil and Rock outcrop occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Varilla

Organic layer:

Surface layer:

Subsurface layer:

Subsoil:

Substratum:

Rock outcrop

Minor Components

Similar components:

Dissimilar components:

Properties and Qualities of the Varilla Soil

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

Septic tank absorption fields

Local roads and streets

Interpretive Groups

Prime farmland:
Land capability class:
Virginia soil management group:
Hydric soils:

30E—Varilla-Rock outcrop complex, 35 to 55 percent slopes, extremely bouldery

Setting

Major land resource area:
Landform:
Position on the landform:

Map Unit Composition

Note: This Varilla soil and Rock outcrop occur as areas so closely intermingled that they could not be separated at the scale selected for mapping.

Typical Profile

Varilla

Organic layer:

Surface layer:

Subsurface layer:

Subsoil:

Substratum:

Rock outcrop

Minor Components

Similar components:

Dissimilar components:

Properties and Qualities of the Varilla Soil

Available water capacity:
Slowest saturated hydraulic conductivity:
Depth class:
Depth to root-restrictive feature:
Drainage class:
Depth to seasonal water saturation:
Flooding hazard:
Ponding hazard:
Shrink-swell potential:
Runoff class:
Surface fragments:

Parent material:

Use and Management Considerations

Cropland

Pastureland

Woodland

Building sites

epcti tak absorpation ieldsd

d

W—Water

Setting

Major land resource area:

Definition

Use and Management of the Soils

Interpretive Ratings

Rating Class Terms

not limited, somewhat limited, very limited

well suited, moderately suited, poorly suited, unsuited

good, fair, poor

Numerical Ratings

Crops and Pasture

Yields per Acre

Land Capability Classification

Capability classes

Capability subclasses

e, w, s, c, *e*

w

s

c,

w, s, c

Capability units

Virginia Soil Management Groups

Group A.

Group G.

Group H.

Group L.

Group U.

Group CC.

Group FF.

Group JJ.

Prime Farmland and Other Important Farmlands

Prime farmland

Unique farmland

farmland of statewide importance

farmland of local importance

Hydric Soils

Agricultural Waste Management

Not limited

Somewhat limited

Very limited

Application of manure and food-processing waste

Application of sewage sludge

Disposal of wastewater by irrigation

Overland flow of wastewater

Rapid infiltration of wastewater

Slow rate treatment of wastewater

Forestland Productivity and Management

Forestland Productivity

potential productivity *common trees*
site index

volume of wood fiber

Trees to manage

Forestland Management

Well suited

Moderately suited

Poorly suited

Unsuited

low, moderate, high

limitations affecting construction of haul roads and log landings

slight
moderate
severe

suitability for log landings

soil rutting hazard

slight
moderate
severe

hazard of off-road or off-trail erosion

slight
moderate
severe

very severe

hazard of erosion on roads and trails

slight
moderate

severe

suitability for roads (natural surface)

suitability for hand planting *suitability for mechanical planting*

suitability for use of harvesting equipment

suitability for mechanical site preparation (surface)

suitability for mechanical site preparation (deep)

potential for damage to soil by fire

potential for seedling mortality

Recreational Development

Not limited

Somewhat limited

Very limited

Camp areas

Picnic areas

Playgrounds

Paths and trails

Off-road motorcycle trails

Golf fairways

Engineering

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.

Building Site Development

Not limited

Somewhat limited

Very limited

Dwellings

Small commercial buildings

Local roads and streets

Shallow excavations

Lawns and landscaping

Sanitary Facilities

Not limited

Somewhat limited

Very limited

Septic tank absorption fields

Sewage lagoons

trench sanitary landfill

area sanitary landfill

Daily cover for landfill

Construction Materials

Gravel *sand*

good, fair, *poor*
good *fair*

good, fair, *poor*

Reclamation material

Roadfill

Topsoil

Water Management

Not limited

Somewhat limited

Very limited

Pond reservoir areas

Embankments, dikes, and levees

Aquifer-fed excavated ponds

Soil Properties

Engineering Soil Properties

Depth
Texture

Classification

Rock fragments

Percentage (of soil particles) passing designated sieves

Liquid limit *plasticity index*

Physical Soil Properties

Depth

Sand

Silt

Clay

Moist bulk density

Saturated hydraulic conductivity

Available water capacity

Linear extensibility

Organic matter

Erosion factors

Erosion factor Kw

Erosion factor Kf

Erosion factor T

Wind erodibility groups

Wind erodibility index

Chemical Soil Properties

Surface runoff

months

Water table

upper limit *lower limit*

Ponding

surface water depth *duration* *frequency*

very brief *brief* *long*

very long

None *rare*

occasional

frequent

Flooding

Duration *frequency* *extremely brief*

very brief *brief* *long*

very long

None

very rare

rare

occasional

frequent

very frequent

Soil Features

restrictive layer

Depth to top

Potential for frost action

Risk of corrosion

low, moderate, high,

low, moderate, high

Classification of the Soils

sol

Ud
ult

Hapl
udult

Typic

Soil Series and Their Morphology

Alticrest Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

A horizon:

E horizon (if it occurs):

BE horizon:

Bw horizon:

C horizon:

Berks Series

Physiographic province:
Landform:
Parent material:

Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

A or Ap horizon:

Bw horizon:

BC horizon (if it occurs):

C horizon:

Cr horizon:

Cedarcreek Series

Physiographic province:
Landform:
Parent material:

Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solumn thickness:
Depth to bedrock:
Reaction:

Rock fragments:

A horizon:

C horizon:

Cloverlick Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

Note:

A horizon:

BA horizon:

Bw horizon:

BC and C horizons:

Cotaco Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragment content:

A horizon:

BA horizon:

Bt horizon:

BC horizon:

C horizon:

Craigsville Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:

Rock fragment content:

A or BA horizon:

Bw horizon:

C horizon:

Fiveblock Series

Physiographic province:
Landform:
Parent material:

Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

A horizon:

C horizon:

Gilpin Series

Physiographic province:
Landform:
Parent material:

Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

A horizon:

BA horizon:

BE horizon (if it occurs):

Bt horizon:

BC horizon (if it occurs):

C horizon:

Cr horizon:

Grigsby Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:

Rock fragment content:

Ap or A horizon:

Bw horizon:

C horizon:

Highsplint Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragment content:

A horizon:

BA horizon (if it occurs):

Bw horizon:

C horizon:

Itmann Series

Physiographic province:
Landform:
Parent material:

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

Other characteristics:

A horizon:

A horizon in stockpiled areas:

C horizon:

Kaymine Series

Physiographic province:
Landform:
Parent material:

Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

A horizon:

C horizon:

Marrowbone Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:

Rock fragments:

A horizon:

Bw horizon:

C horizon:

Cr horizon:

Matewan Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:

Rock fragments:

A horizon:

B horizon:

C horizon:

Philo Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragment content:

Ap or A horizon:

Bw horizon:

C horizon:

2C horizon (if it occurs):

Ramsey Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:

Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

A horizon:

E horizon:

Bw horizon:

C horizon (if it occurs):

Sewell Series

Physiographic province:
Landform:
Parent material:

Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragments:

A horizon:

C horizon:

Shelocta Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:

Reaction:
Rock fragments:

A horizon:

E horizon (if it occurs):

BA or BE horizon (if it occurs):

Bt or BC horizon:

C horizon:

Stonecoal Series

Physiographic province:
Landform:
Parent material:

Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

AC horizon (if it occurs):

C horizon:

Udorthents

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Varilla Series

Physiographic province:
Landform:
Parent material:
Drainage class:
Slowest saturated hydraulic conductivity:
Depth class:
Slope range:

Associated Soils

Taxonomic Classification

Typical Pedon

Range in Characteristics

Solum thickness:
Depth to bedrock:
Reaction:
Rock fragment content:

A horizon:

E horizon:

BA horizon (if it occurs):

Bw horizon:

C horizon:

Formation of the Soils

Factors of Soil Formation

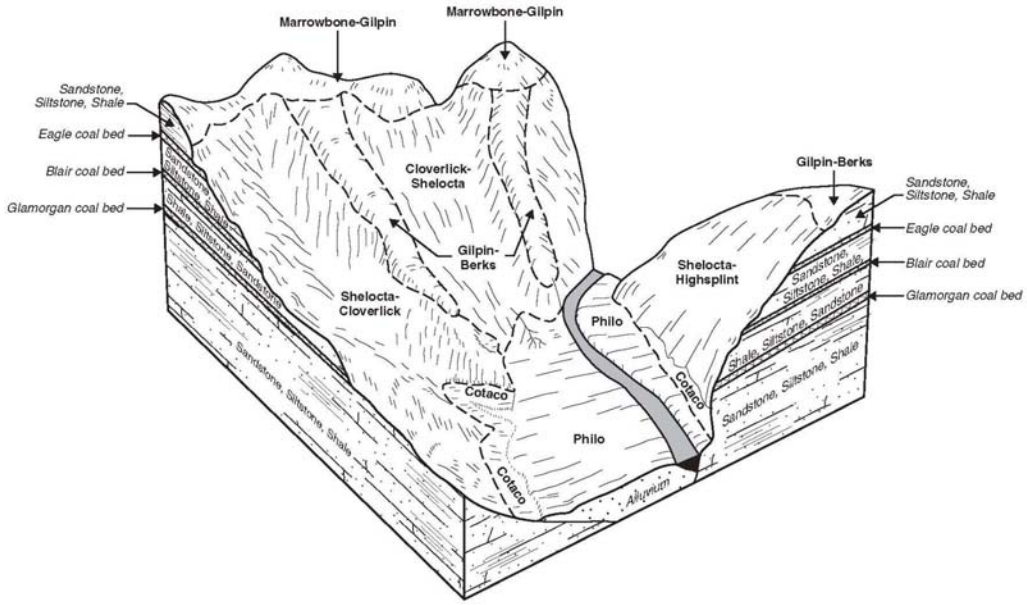

Figure 11.—Diagram of a sequence of residual, colluvial, and alluvial soils. The soils named on the land surface are shown in their natural relationship to each other and in their relationship to landform position.

Climate

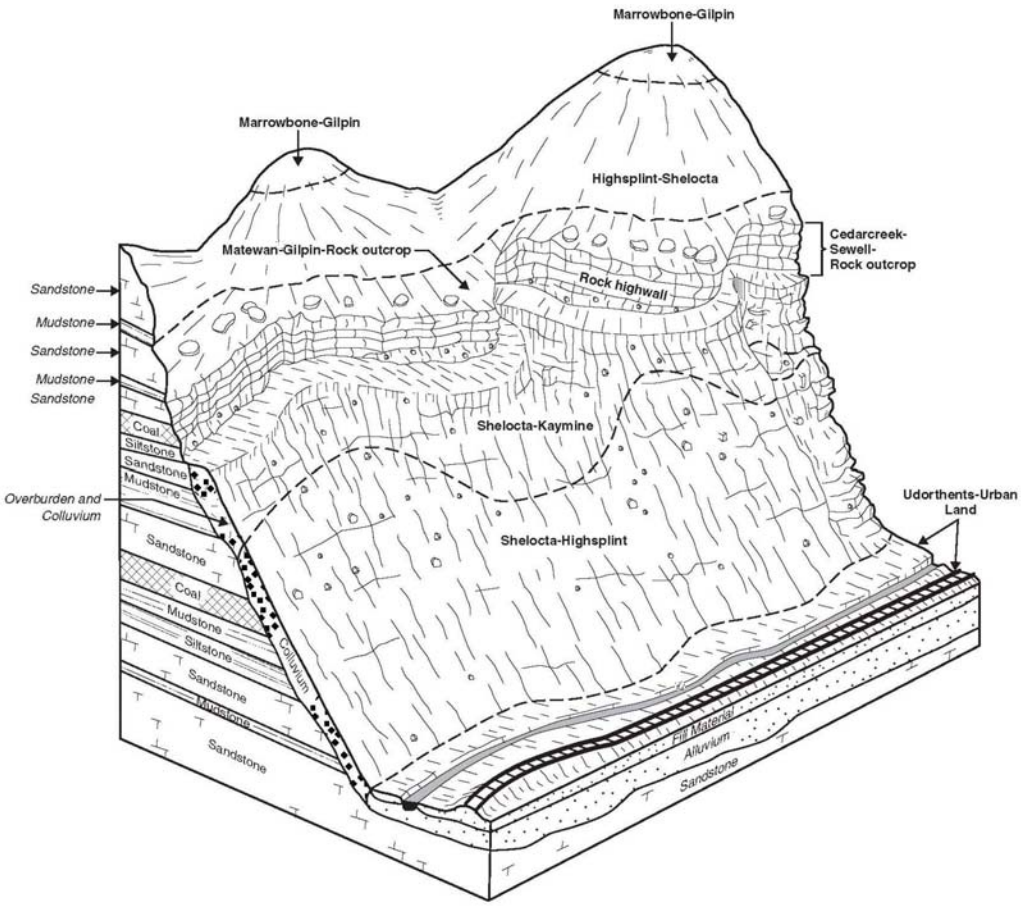

Figure 13.—Illustration of an area that has been surface mined for coal, showing a sequence of native residual and colluvial soils, mine soils, rock outcrop, and a single exposed highwall. The soils named on the land surface are shown in their natural relationship to each other and in their relationship to landform position and geologic strata.

Plant and Animal Life

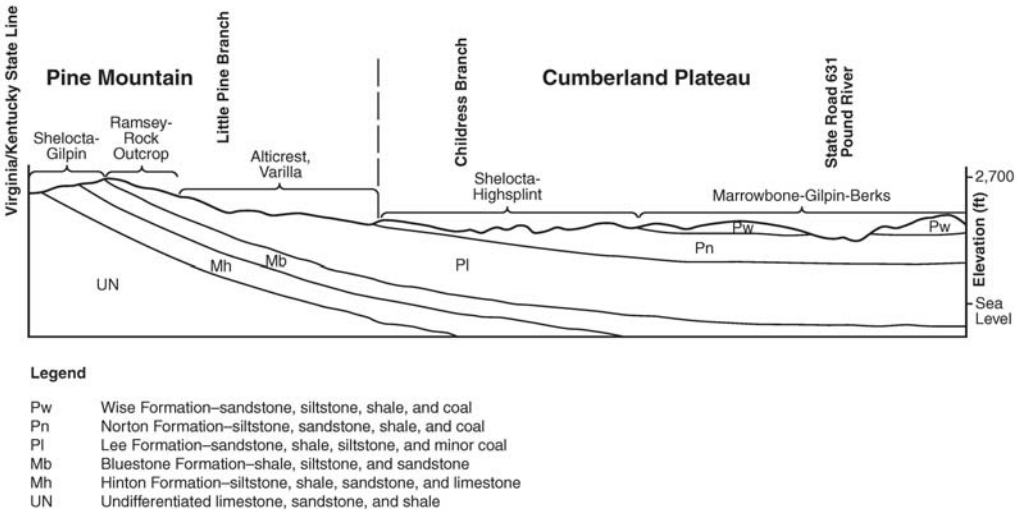

Figure 14. An idealized cross-section of the north-central section of the survey area showing the relationship among landforms, geology, and soils. Geology adapted from "Geology of the Virginia Portion of the Clintwood and Jenkins East Quadrangles" (Diffenbach, 1988).

Parent Material

Relief

Time

Morphology of the Soils

O horizon

A horizon

E horizon

B horizon

C horizon

Processes of Horizon Differentiation

References

In

Glossary

ABC soil.
AC soil.

Aeration, soil.

Aggregate, soil.

Alkali (sodic) soil.

Alluvial cone.

Alluvial fan.

Alluvium.

Alpha,alpha-dipyridyl.

Animal unit month (AUM).

Aquic conditions.

Argillic horizon.
Aspect.
Association, soil.

Available water capacity (available moisture capacity).

Backslope.

Backswamp.

Basal area.

Base saturation.

Base slope

Bedding plane.

Bedding system.

Bedrock.

Bedrock-controlled topography.

Bench.

Bench terrace.

Bisequum.

Blowout.

Bottom land.
Boulders.
Breaks.

Breast height.

Brush management.

Cable yarding.

Calcareous soil.

California bearing ratio

Canopy.
Capillary water.

Catena.

Cation.

Cation-exchange capacity.

Catsteps.
Cement rock.
Channery soil material.

Chemical treatment.
Chiseling.

Clay.

Clay depletions.
Clay film.

Claypan.

Climax plant community.

Concretions.

Coarse textured soil.
Cobble (or cobblestone).

Cobbly soil material.

COLE (coefficient of linear extensibility).
Colluvium.

Complex slope.

Complex, soil.

Concretions.

Conglomerate.

Conservation cropping system.

Conservation tillage.

Consistence, soil.

Contour stripcropping.

Control section.

Coprogenous earth (sedimentary peat).

Corrosion

Corrosion

Cover crop.

Crop residue management.

Cropping system.

Cross-slope farming.

Crown.

Cryoturbate.

Cuesta.

Culmination of the mean annual increment (CMAI).

Cut and filled

Cutbanks cave
Decreasers.

Deferred grazing.
Delta.

Dense layer

Depth, soil.

Differential settling.
Diatomaceous earth.

Dip slope.

Diversion (or diversion terrace).

Divided-slope farming.

Drainage class

excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, very poorly drained

Drainage, surface.
Drainageway.

Draw.

Duff.

Dune.

Earthy fill.
Ecological site.

Eluviation.

Endosaturation.

Ephemeral stream.

Episaturation.

Erosion.

Erosion

Erosion

Erosion pavement.

Erosion surface.

Escarpment.

Fallow.

Fan remnant.

Fertility, soil.

Fibric soil material (peat).

Field moisture capacity.

normal field capacity, normal moisture capacity, capillary capacity

Fill slope.

Fine textured soil.

Firebreak.

First bottom.

Flaggy soil material.

Flagstone.

Flood plain.

Flood-plain landforms.

Flood-plain splay.

Flood-plain step.

Fluvial.

Foothills.

Footslope.

Forb.
Forest cover.

Forest type.

Fragipan.

Genesis, soil.

Gilgai.

Gleyed soil.

Graded stripcropping.

Grassed waterway.

Gravel.

Gravelly soil material.

Green manure crop

Ground water.

Gully.

Hard bedrock.

Hard to reclaim

Hardpan.

Head slope (geomorphology).

Hemic soil material (mucky peat).

High-residue crops.

Highwall.

Hill.

Hillslope.

Horizon, soil.

O horizon.
L horizon.

A horizon.

E horizon.

B horizon.

C horizon.

Cr horizon.
R layer.

Humus.

Hydrologic soil groups.

Igneous rock.

Illuviation.

Impervious soil.

Increasers.

Infiltration.

Infiltration capacity.

Infiltration rate.

Intake rate.

Interfluve.

Interfluve

Intermittent stream.

Invaders.

Iron depletions.
Irrigation.

Basin.

Border.

Controlled flooding.

Corrugation.

Drip (or trickle).

Furrow.

Sprinkler.

Subirrigation.

Wild flooding.

Karst

Knoll.

K_{sat}.

Lacustrine deposit.

Lake plain.

Lake terrace.

Landslide.

Large stones

Leaching.

Linear extensibility.

Liquid limit.

Loam.

Loess.

Low strength.

Low-residue crops.

Marl.

Mass movement.

Masses.
Meander belt.

Meander scar.

Meander scroll.

Mechanical treatment.

Medium textured soil.
Mesa.

Metamorphic rock.

Mine spoil.

Mineral soil.

Minimum tillage.

Miscellaneous area.

Moderately coarse textured soil.

Moderately fine textured soil.
Mollic epipedon.

Morphology, soil.

Mottling, soil.
few, common, many; fine, medium, coarse; faint, distinct, prominent Fine medium, coarse,
Mountain.

Muck.

Mudstone.

Munsell notation.

Natric horizon.

Neutral soil.
Nodules.
Nose slope (geomorphology).

Nutrient, plant.

Organic matter.

Outslope.

Paleoterrace.

Pan.
hardpan, fragipan, claypan, plowpan, traffic pan
Parent material.
Peat.

Ped.
Pedisediment.

Pedon.

Percolation.
Permafrost.

Permeability.

pH value.
Phase, soil.

Piping

Pitting

Plastic limit.
Plasticity index.

Plateau

Playa.

Plinthite.

Plowpan.
Ponding.

Poorly graded.

Pore linings.
Potential native plant community.

Potential rooting depth (effective rooting depth).

Prescribed burning.

Productivity, soil.

Profile, soil.

Proper grazing use.

Rangeland.

Reaction, soil.

Red beds.

Redoximorphic concentrations.
Redoximorphic depletions.
Redoximorphic features.

and

and

and

in situ

Reduced matrix.
Regolith.

Relief.

Residuum (residual soil material).

Ridge.

Rill.

Riser.

Road cut.

Rock fragments.

Root zone.
Runoff.

Saline soil.

Sand.

Sandstone.
Sapric soil material (muck).

Saturated hydraulic conductivity (K_{sat}).
Saturation.

Scarification.

Sedimentary rock.

Sequum.

Series, soil.

Shale.

Sheet erosion.

Shoulder.

Shrink-swell

Shrub-coppice dune.

Side slope (geomorphology).

Silica.
Silica-sesquioxide ratio.

Silt.

Siltstone.

Similar soils.

Sinkhole.

Site index.

Slickensides

Slope.

Slope alluvium.

Slow refill

Sodic (alkali) soil.

Sodicity.

Sodium adsorption ratio (SAR).

Soft bedrock.

Soil.

Soil crusts.

Soil separates.

Solum.

Spur.

Stone line.

Stones.

Stony.

Strath terrace.

Stream terrace.

Stripcropping.

Structure, soil.

platy *prismatic*
columnar
blocky *granular* *Structureless*
single grained *massive*

Stubble mulch.

Subsoil.
Subsoiling.

Substratum.
Subsurface layer.
Summer fallow.

Summit.

Surface layer.

Surface soil.

Talus.

Taxadjuncts.

Terrace

Terrace

Terracettes.

Texture, soil.

sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, clay

Thin layer

Tilth, soil.

Toeslope.

Topsoil.

Trace elements.

Tread.

Unstable fill (in tables).

Upland.

Valley.

Variegation.

Water bars.

Weathering.

Well graded.

Wilting point (or permanent wilting point).

Windthrow.

Tables

Table 1.—Temperature and Precipitation

(Recorded in the period 1971-2000 at Grundy, Virginia)

Month	Temperature						Precipitation				
	Average daily maximum	Average daily minimum	Average daily	2 years in 10 will have-- Maximum temp. higher than--	2 years in 10 will have-- Minimum temp. lower than--	Average number of growing degree days*	Average	2 years in 10 will have-- Less than--	2 years in 10 will have-- More than--	Average number of days with 0.10 inch or more	Average snow-fall
	°F	°F	°F	°F	°F	Units	In	In	In		In
January--	45.6	23.1	34.4	73	-4	57	3.52	1.91	4.92	7	6.9
February-	50.4	25.3	37.9	78	1	92	3.19	1.94	4.42	7	5.2
March----	59.6	32.1	45.8	84	12	233	3.92	2.17	5.37	8	2.9
April----	69.1	39.1	54.1	89	24	426	4.03	2.18	5.78	8	1.1
May------	76.9	49.1	63.0	91	32	711	4.91	2.84	6.87	9	0.0
June-----	83.6	58.0	70.8	95	43	919	4.53	2.22	6.73	8	0.0
July-----	87.2	62.9	75.0	97	50	1,081	4.95	3.12	6.71	8	0.0
August---	86.1	62.1	74.1	96	50	1,050	3.93	2.66	5.18	7	0.0
September	80.4	55.3	67.9	95	38	836	3.51	2.12	4.83	6	0.0
October--	70.5	41.5	56.0	87	25	497	3.15	1.67	4.60	6	0.0
November-	60.1	32.9	46.5	82	15	236	3.10	1.65	4.43	7	0.7
December-	49.6	26.0	37.8	73	4	91	3.24	1.88	4.32	7	3.0
Yearly:											
Average	68.3	42.3	55.3	---	---	---	---	---	---	---	---
Extreme	102	-14	---	98	-7	---	---	---	---	---	---
Total--	---	---	---	---	---	6,229	45.98	36.85	52.74	88	19.7

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

Table 2.—Freeze Dates in Spring and Fall

(Recorded in the period 1971-2000 at Grundy, Virginia)

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. 10	Apr. 24	May 6
2 years in 10 later than--	Apr. 5	Apr. 19	May 1
5 years in 10 later than--	Mar. 25	Apr. 9	Apr. 21
First freezing temperature in fall:			
1 year in 10 earlier than--	Oct. 20	Oct. 16	Oct. 5
2 years in 10 earlier than--	Oct. 27	Oct. 21	Oct. 10
5 years in 10 earlier than-	Nov. 8	Nov. 1	Oct. 20

Table 3.—Growing Season

(Recorded in the period 1971-2000 at Grundy, Virginia)

Probability	Daily minimum temperature during growing season		
	Higher than 24 °F	Higher than 28 °F	Higher than 32 °F
	Days	Days	Days
9 years in 10	204	186	161
8 years in 10	211	193	168
5 years in 10	224	206	181
2 years in 10	238	220	195
1 year in 10	245	227	202

Table 4.—Acreage and Proportionate Extent of the Soils

Map symbol	Soil name	Acres	Percent
1D	Alticrest fine sandy loam, 15 to 35 percent slopes, rocky	2,205	1.0
1E	Alticrest fine sandy loam, 35 to 55 percent slopes, rocky	1,477	0.7
2C	Cedarcreek-Sewell-Rock outcrop complex, 0 to 15 percent slopes, very stony	3,425	1.6
3E	Cloverlick-Shelocta complex, 35 to 55 percent slopes, very stony	4,691	2.2
3F	Cloverlick-Shelocta complex, 55 to 70 percent slopes, very stony	19,133	8.9
4C	Cotaco loam, 8 to 15 percent slopes	375	0.2
5B	Craigsville fine sandy loam, 0 to 5 percent slopes, frequently flooded	1,631	0.8
6	Dumps, mine-Urban land complex	146	*
7D	Gilpin silt loam, 15 to 35 percent slopes	123	*
8C	Gilpin-Berks complex, 8 to 15 percent slopes	1,147	0.5
8D	Gilpin-Berks complex, 15 to 25 percent slopes	7,528	3.5
8E	Gilpin-Berks complex, 25 to 35 percent slopes	8,283	3.9
8F	Gilpin-Berks complex, 35 to 70 percent slopes	6,873	3.2
9A	Grigsby fine sandy loam, 0 to 3 percent slopes, occasionally flooded	1,232	0.6
10D	Highsplint channery silt loam, 15 to 35 percent slopes, very stony	2,582	1.2
11E	Highsplint-Shelocta complex, 35 to 55 percent slopes, very stony	11,348	5.3
11F	Highsplint-Shelocta complex, 55 to 70 percent slopes, very stony	29,523	13.8
12F	Itmann gravelly loam, 0 to 80 percent slopes	70	*
13D	Kaymine very channery silt loam, 15 to 35 percent slopes, extremely stony	2,962	1.4
14E	Kaymine-Cedarcreek complex, 35 to 55 percent slopes, extremely stony	5,871	2.7
15F	Kaymine, Cedarcreek, and Fiveblock soils, 55 to 80 percent slopes, extremely stony	3,242	1.5
16C	Kaymine-Fiveblock-Cedarcreek complex, 0 to 15 percent slopes, extremely stony	3,415	1.6
17F	Kaymine-Sewell-Rock outcrop complex, 0 to 80 percent slopes, extremely stony	3,049	1.4
18C	Marrowbone-Gilpin complex, 8 to 15 percent slopes	2,152	1.0
18D	Marrowbone-Gilpin complex, 15 to 25 percent slopes	8,230	3.8
18E	Marrowbone-Gilpin complex, 25 to 35 percent slopes	9,027	4.2
18F	Marrowbone-Gilpin complex, 35 to 70 percent slopes	12,983	6.1
19F	Matewan-Gilpin-Rock outcrop complex, 35 to 80 percent slopes, extremely stony	30,709	14.3
20A	Philo fine sandy loam, 0 to 3 percent slopes, occasionally flooded	276	0.1
21F	Ramsey-Alticrest-Rock outcrop complex, 35 to 80 percent slopes	6,744	3.2
22E	Sewell channery sandy loam, 35 to 55 percent slopes, extremely stony	220	0.1
22F	Sewell channery sandy loam, 55 to 80 percent slopes, extremely stony	65	*
23F	Shelocta-Cedarcreek complex, 55 to 80 percent slopes, very bouldery	2,224	1.0
24E	Shelocta-Gilpin complex, 35 to 55 percent slopes, very stony	646	0.3
24F	Shelocta-Gilpin complex, 55 to 70 percent slopes, very stony	24	*
25F	Shelocta-Kaymine complex, 55 to 80 percent slopes, very bouldery	10,023	4.7
26F	Stonecoal extremely channery sandy loam, 0 to 80 percent slopes	251	0.1
27	Udorthents-Urban land complex, 0 to 80 percent slopes	6,215	2.9
28	Udorthents-Urban land complex, occasionally flooded	1,137	0.5
29D	Varilla gravelly sandy loam, 15 to 35 percent slopes, extremely stony	44	*
30D	Varilla-Rock outcrop complex, 15 to 35 percent slopes, extremely bouldery	818	0.4
30E	Varilla-Rock outcrop complex, 35 to 55 percent slopes, extremely bouldery	283	0.1
DAM	Dam	10	*
W	Water	1,588	0.7
	Total	214,000	100.0

* Less than 0.1 percent.

Table 5.—Land Capability, Virginia Soil Management Group, 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	Virginia soil management group	Alfalfa hay	Corn	Grass-legume hay	Pasture	Wheat
			Tons	Bu	Tons	AUM	Bu
1D:							
Alticrest	6e	FF	---	---	---	4.0	---
1E:							
Alticrest	7e	FF	---	---	---	---	---
2C:							
Cedarcreek	6s	JJ	---	---	---	2.5	---
Sewell	6s	JJ	---	---	---	2.0	---
Rock outcrop	8		---	---	---	---	---
3E:							
Cloverlick	7e	JJ	---	---	---	---	---
Shelocta	7e	L	---	---	---	---	---
3F:							
Cloverlick	7e	JJ	---	---	---	---	---
Shelocta	7e	L	---	---	---	---	---
4C:							
Cotaco	3e	G	4.8	123	4.0	8.0	56
5B:							
Craigsville	2w	CC	---	85	3.5	5.0	56
6:							
Dumps, mine	8		---	---	---	---	---
Urban land	8		---	---	---	---	---
7D:							
Gilpin	6e	U	---	---	---	4.0	---
8C:							
Gilpin	3e	U	3.5	97	3.1	4.5	49
Berks	3e	JJ	---	57	2.6	3.5	35
8D:							
Gilpin	4e	U	3.2	88	2.8	4.0	45
Berks	4e	JJ	---	52	2.4	3.0	32
8E:							
Gilpin	6e	U	---	---	---	3.5	---
Berks	6e	JJ	---	---	---	2.5	---

Table 5.—Land Capability, Virginia Soil Management Group, and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Virginia soil management group	Alfalfa hay	Corn	Grass-legume hay	Pasture	Wheat
			Tons	Bu	Tons	AUM	Bu
8F:							
Gilpin	7e	U	---	---	---	---	---
Berks	7e	JJ	---	---	---	---	---
9A:							
Grigsby	1	A	6.0	160	4.5	9.0	64
10D:							
Highsplint	7s	CC	---	---	---	---	---
11E:							
Highsplint	7e	CC	---	---	---	---	---
Shelocta	7e	L	---	---	---	---	---
11F:							
Highsplint	7e	CC	---	---	---	---	---
Shelocta	7e	L	---	---	---	---	---
12F:							
Itmann, unstable fill	7e	JJ	---	---	---	---	---
13D:							
Kaymine, unstable fill	7s	JJ	---	---	---	---	---
14E:							
Kaymine, unstable fill	7e	JJ	---	---	---	---	---
Cedarcreek, unstable fill	7e	JJ	---	---	---	---	---
15F:							
Kaymine, unstable fill	7e	JJ	---	---	---	---	---
Cedarcreek, unstable fill	7e	JJ	---	---	---	---	---
Fiveblock, unstable fill	7e	JJ	---	---	---	---	---
16C:							
Kaymine, unstable fill	7s	JJ	---	---	---	---	---
Fiveblock, unstable fill	7s	JJ	---	---	---	---	---
Cedarcreek, unstable fill	7s	JJ	---	---	---	---	---

Table 5.—Land Capability, Virginia Soil Management Group, and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Virginia soil management group	Alfalfa hay	Corn	Grass-legume hay	Pasture	Wheat
			Tons	Bu	Tons	AUM	Bu
17F:							
Kaymine	7s	JJ	---	---	---	---	---
Sewell	7s	JJ	---	---	---	---	---
Rock outcrop	8		---	---	---	---	---
18C:							
Marrowbone	3e	FF	---	75	3.1	4.0	42
Gilpin	3e	U	3.5	97	3.1	4.0	49
18D:							
Marrowbone	4e	FF	---	68	2.8	4.0	38
Gilpin	4e	U	3.2	88	2.8	4.0	45
18E:							
Marrowbone	6e	FF	---	---	---	3.5	---
Gilpin	6e	U	---	---	---	3.5	---
18F:							
Marrowbone	7e	FF	---	---	---	---	---
Gilpin	7e	U	---	---	---	---	---
19F:							
Matewan	7s	FF	---	---	---	---	---
Gilpin	7s	U	---	---	---	---	---
Rock outcrop	8		---	---	---	---	---
20A:							
Philo	2w	H	---	140	3.0	4.0	48
21F:							
Ramsey	7s	JJ	---	---	---	---	---
Alticrest	7s	FF	---	---	---	---	---
Rock outcrop	8		---	---	---	---	---
22E:							
Sewell, unstable fill	7e	JJ	---	---	---	---	---
22F:							
Sewell, unstable fill	7e	JJ	---	---	---	---	---
23F:							
Shelocta	7e	L	---	---	---	---	---
Cedarcreek, unstable fill	7e	JJ	---	---	---	---	---

Table 5.—Land Capability, Virginia Soil Management Group, and Yields per Acre of Crops and Pasture—Continued

Map symbol and soil name	Land capability	Virginia soil management group	Alfalfa hay	Corn	Grass-legume hay	Pasture	Wheat
			Tons	Bu	Tons	AUM	Bu
24E:							
Shelocta----------	7e	L	---	---	---	---	---
Gilpin----------	7e	U	---	---	---	---	---
24F:							
Shelocta----------	7e	L	---	---	---	---	---
Gilpin----------	7e	U	---	---	---	---	---
25F:							
Shelocta----------	7e	L	---	---	---	---	---
Kaymine, unstable fill----------	7e	JJ	---	---	---	---	---
26F:							
Stonecoal, unstable fill----	7e	JJ	---	---	---	---	---
27:							
Udorthents--------	7s		---	---	---	---	---
Urban land--------	8		---	---	---	---	---
28:							
Udorthents--------	7s		---	---	---	---	---
Urban land--------	8		---	---	---	---	---
29D:							
Varilla----------	7s	CC	---	---	---	---	---
30D:							
Varilla----------	7s	CC	---	---	---	---	---
Rock outcrop------	8		---	---	---	---	---
30E:							
Varilla----------	7s	CC	---	---	---	---	---
Rock outcrop------	8		---	---	---	---	---
DAM.							
Dam							
W.							
Water							

Table 6.—Prime Farmland

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland)

Map symbol	Map unit name
9A	Grigsby fine sandy loam, 0 to 3 percent slopes, occasionally flooded
20A	Philo fine sandy loam, 0 to 3 percent slopes, occasionally flooded

Table 7.—Agricultural Waste 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	Pct. of map unit	Application of manure and food-processing waste: Rating class and limiting features	Value	Application of sewage sludge: Rating class and limiting features	Value
1D:					
Alticrest	85	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Filtering capacity	0.99	Too acid	1.00
		Droughty	0.91	Filtering capacity	0.99
1E:					
Alticrest	85	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Filtering capacity	0.99	Too acid	1.00
		Droughty	0.91	Filtering capacity	0.99
2C:					
Cedarcreek	35	Somewhat limited		Very limited	
		Droughty	0.86	Too acid	1.00
		Large stones content	0.76	Droughty	0.86
		Too acid	0.68	Slope	0.01
Sewell	30	Very limited		Very limited	
		Droughty	1.00	Too acid	1.00
		Large stones content	0.76	Droughty	1.00
		Too acid	0.68	Large stones on the surface	0.08
Rock outcrop	10	Not rated		Not rated	
3E:					
Cloverlick	50	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.47	Too acid	0.85
		Too acid	0.27		
Shelocta	40	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.63	Too acid	0.96
		Too acid	0.37		
3F:					
Cloverlick	45	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.47	Too acid	0.85
		Too acid	0.27		

Table 7.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste: Rating class and limiting features	Value	Application of sewage sludge: Rating class and limiting features	Value
3F:					
Shelocta	40	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.63	Too acid	0.96
		Too acid	0.37		
4C:					
Cotaco	90	Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.99	Depth to saturated zone	0.99
		Slope	0.37	Too acid	0.77
		Too acid	0.22	Slope	0.37
5B:					
Craigsville	90	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Filtering capacity	0.99	Filtering capacity	0.99
		Droughty	0.23	Droughty	0.23
6:					
Dumps, mine	60	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
7D:					
Gilpin	80	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Droughty	0.28	Droughty	0.28
8C:					
Gilpin	55	Somewhat limited		Somewhat limited	
		Too acid	0.50	Too acid	0.99
		Droughty	0.28	Droughty	0.28
		Slope	0.16	Slope	0.16
Berks	35	Somewhat limited		Somewhat limited	
		Droughty	0.92	Too acid	0.99
		Too acid	0.50	Droughty	0.92
		Slope	0.16	Slope	0.16
8D:					
Gilpin	55	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Droughty	0.28	Droughty	0.28
Berks	35	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Droughty	0.92	Too acid	0.99
		Too acid	0.50	Droughty	0.92
8E:					
Gilpin	55	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Droughty	0.28	Droughty	0.28

Table 7.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste: Rating class and limiting features	Value	Application of sewage sludge: Rating class and limiting features	Value
8E:					
Berks	30	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Droughty	0.92	Too acid	0.99
		Too acid	0.50	Droughty	0.92
8F:					
Gilpin	55	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Droughty	0.28	Droughty	0.28
Berks	35	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Droughty	0.92	Too acid	0.99
		Too acid	0.50	Droughty	0.92
9A:					
Grigsby	80	Somewhat limited		Very limited	
		Flooding	0.60	Flooding	1.00
		Too acid	0.11	Too acid	0.42
		Filtering capacity	0.01	Filtering capacity	0.01
10D:					
Highsplint	90	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.63	Too acid	0.55
		Too acid	0.14		
11E:					
Highsplint	50	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.63	Too acid	0.55
		Too acid	0.14		
Shelocta	40	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.63	Too acid	0.96
		Too acid	0.37		
11F:					
Highsplint	55	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.63	Too acid	0.55
		Too acid	0.14		
Shelocta	40	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.63	Too acid	0.96
		Too acid	0.37		

Table 7.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste: Rating class and limiting features	Value	Application of sewage sludge: Rating class and limiting features	Value
12F:					
Itmann, unstable fill	95	Very limited		Very limited	
		Filtering capacity	1.00	Filtering capacity	1.00
		Too steep	1.00	Too acid	1.00
		Droughty	1.00	Droughty	1.00
13D:					
Kaymine, unstable fill	90	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00		
14E:					
Kaymine, unstable fill	85	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00		
Cedarcreek, unstable fill	15	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Too acid	1.00
		Droughty	0.86	Droughty	0.86
15F:					
Kaymine, unstable fill	35	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00		
Cedarcreek, unstable fill	30	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Too acid	1.00
		Droughty	0.86	Droughty	0.86
Fiveblock, unstable fill	25	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Droughty	0.99
		Droughty	0.99	Too acid	0.42
16C:					
Kaymine, unstable fill	55	Very limited		Somewhat limited	
		Large stones content	1.00	Slope	0.01
		Slope	0.01		

Table 7.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste: Rating class and limiting features	Value	Application of sewage sludge: Rating class and limiting features	Value
16C:					
Fiveblock, unstable fill	25	Very limited		Somewhat limited	
		Large stones content	1.00	Droughty	0.99
		Droughty	0.99	Too acid	0.42
		Too acid	0.11	Large stones on the surface	0.02
Cedarcreek, unstable fill	20	Very limited		Very limited	
		Large stones content	1.00	Too acid	1.00
		Droughty	0.86	Droughty	0.86
		Too acid	0.68	Slope	0.01
17F:					
Kaymine	55	Very limited		Very limited	
		Large stones content	1.00	Too steep	1.00
		Too steep	1.00		
Sewell	30	Very limited		Very limited	
		Large stones content	1.00	Too acid	1.00
		Too steep	1.00	Droughty	1.00
		Droughty	1.00	Too steep	1.00
Rock outcrop	10	Not rated		Not rated	
18C:					
Marrowbone	50	Very limited		Very limited	
		Droughty	1.00	Droughty	1.00
		Slope	0.63	Too acid	0.85
		Too acid	0.27	Slope	0.63
Gilpin	45	Somewhat limited		Somewhat limited	
		Slope	0.63	Too acid	0.99
		Too acid	0.50	Slope	0.63
		Droughty	0.28	Droughty	0.28
18D:					
Marrowbone	50	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Droughty	1.00	Droughty	1.00
		Too acid	0.27	Too acid	0.85
Gilpin	45	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Droughty	0.28	Droughty	0.28
18E:					
Marrowbone	60	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Droughty	1.00	Droughty	1.00
		Too acid	0.27	Too acid	0.85

Table 7.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste: Rating class and limiting features	Value	Application of sewage sludge: Rating class and limiting features	Value
18E:					
Gilpin	35	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Droughty	0.28	Droughty	0.28
18F:					
Marrowbone	75	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Droughty	1.00	Droughty	1.00
		Too acid	0.27	Too acid	0.85
Gilpin	15	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Droughty	0.28	Droughty	0.28
19F:					
Matewan	55	Very limited		Very limited	
		Too steep	1.00	Filtering capacity	1.00
		Filtering capacity	1.00	Too steep	1.00
		Large stones content	1.00	Droughty	0.99
Gilpin	30	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Too acid	0.99
		Too acid	0.50	Droughty	0.28
Rock outcrop	10	Not rated		Not rated	
20A:					
Philo	95	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Flooding	1.00
		Too acid	0.37	Too acid	0.96
21F:					
Ramsey	55	Very limited		Very limited	
		Too steep	1.00	Droughty	1.00
		Droughty	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00
Alticrest	20	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Filtering capacity	0.99	Too acid	1.00
		Droughty	0.91	Filtering capacity	0.99
Rock outcrop	15	Not rated		Not rated	

Table 7.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste: Rating class and limiting features	Value	Application of sewage sludge: Rating class and limiting features	Value
22E:					
Sewell, unstable fill	85	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Too acid	1.00
				Droughty	1.00
		Droughty	1.00		
22F:					
Sewell, unstable fill	85	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Too acid	1.00
				Droughty	1.00
		Droughty	1.00		
23F:					
Shelocta	70	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.37	Too acid	0.96
		Large stones content	0.31		
Cedarcreek, unstable fill	25	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Droughty	0.86	Too acid	1.00
		Too acid	0.68	Droughty	0.86
24E:					
Shelocta	65	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.37	Too acid	0.96
		Large stones content	0.31		
Gilpin	30	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Large stones content	0.31	Droughty	0.28
24F:					
Shelocta	60	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.37	Too acid	0.96
		Large stones content	0.31		
Gilpin	35	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.50	Too acid	0.99
		Large stones content	0.31	Droughty	0.28

Table 7.—Agricultural Waste Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste: Rating class and limiting features	Value	Application of sewage sludge: Rating class and limiting features	Value
25F:					
Shelocta	55	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Too acid	0.37	Too acid	0.96
		Large stones content	0.31		
Kaymine, unstable fill	40	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	0.31		
26F:					
Stonecoal, unstable fill	85	Very limited		Very limited	
		Too steep	1.00	Droughty	1.00
		Droughty	1.00	Too steep	1.00
		Cobble content	0.87	Cobble content	0.87
27:					
Udorthents	45	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
28:					
Udorthents	45	Not rated		Not rated	
Urban land	35	Not rated		Not rated	
29D:					
Varilla	80	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Too acid	1.00
		Too acid	0.62		
30D:					
Varilla	75	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Too acid	1.00
		Too acid	0.62		
Rock outcrop	10	Not rated		Not rated	
30E:					
Varilla	75	Very limited		Very limited	
		Too steep	1.00	Too steep	1.00
		Large stones content	1.00	Too acid	1.00
		Too acid	0.62		
Rock outcrop	10	Not rated		Not rated	
DAM:					
Dam	100	Not rated		Not rated	
W:					
Water	100	Not rated		Not rated	

Table 7.—Agricultural Waste 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	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
1D:					
Alticrest	85	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Too acid	1.00	Depth to bedrock	1.00
1E:					
Alticrest	85	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Too acid	1.00	Depth to bedrock	1.00
2C:					
Cedarcreek	35	Very limited		Very limited	
		Too acid	1.00	Seepage	1.00
		Too steep for surface application	1.00	Too acid	1.00
		Droughty	0.86	Stone content	0.32
Sewell	30	Very limited		Very limited	
		Too acid	1.00	Seepage	1.00
		Droughty	1.00	Too acid	1.00
		Too steep for surface application	1.00	Stone content	1.00
Rock outcrop	10	Not rated		Not rated	
3E:					
Cloverlick	50	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	0.85	Too acid	0.85

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
8C:					
Gilpin	55	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
				Depth to bedrock	1.00
				Too acid	0.99
		Too acid	0.99		
		Too steep for sprinkler application	0.40		
Berks	35	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
				Depth to bedrock	1.00
				Too acid	0.99
		Too acid	0.99		
		Droughty	0.92		
8D:					
Gilpin	55	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		
Berks	35	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		
8E:					
Gilpin	55	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		
Berks	30	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
8F:					
Gilpin	55	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		
Berks	35	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		
9A:					
Grigsby	80	Somewhat limited		Very limited	
		Flooding	0.60	Flooding	1.00
		Too acid	0.42	Seepage	1.00
		Filtering capacity	0.01	Too acid	0.42
10D:					
Highsplint	90	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Too acid	0.55
		Too acid	0.55		
11E:					
Highsplint	50	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Too acid	0.55
		Too acid	0.55		
Shelocta	40	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Too acid	0.96
		Too acid	0.96		

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
11F:					
Highsplint----------	55	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	0.55	Too acid	0.55
Shelocta----------	40	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	0.96	Too acid	0.96
12F:					
Itmann, unstable fill----------	95	Very limited		Very limited	
		Filtering capacity	1.00	Seepage	1.00
		Too acid	1.00	Too acid	1.00
		Droughty	1.00	Too steep for surface application	1.00
13D:					
Kaymine, unstable fill----------	90	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Cobble content	0.27
14E:					
Kaymine, unstable fill----------	85	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Cobble content	0.27
Cedarcreek, unstable fill----------	15	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	1.00	Too acid	1.00

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
15F:					
Kaymine, unstable fill	35	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Cobble content	0.27
Cedarcreek, unstable fill	30	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	1.00	Too acid	1.00
Fiveblock, unstable fill	25	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Droughty	0.99	Stone content	1.00
16C:					
Kaymine, unstable fill	55	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	0.10	Cobble content	0.27
				Too steep for surface application	0.22
Fiveblock, unstable fill	25	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Droughty	0.99	Stone content	1.00
		Too acid	0.42	Too acid	0.42
Cedarcreek, unstable fill	20	Very limited		Very limited	
		Too acid	1.00	Seepage	1.00
		Too steep for surface application	1.00	Too acid	1.00
		Droughty	0.86	Stone content	0.32

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
17F:					
Kaymine	55	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
				Cobble content	0.27
Sewell	30	Very limited		Very limited	
		Too acid	1.00	Seepage	1.00
		Droughty	1.00	Too acid	1.00
		Too steep for surface application	1.00	Stone content	1.00
Rock outcrop	10	Not rated		Not rated	
18C:					
Marrowbone	50	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
				Depth to bedrock	1.00
				Too steep for surface application	1.00
		Droughty	1.00		
		Too acid	0.85		
Gilpin	45	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
				Depth to bedrock	1.00
				Too steep for surface application	1.00
		Too acid	0.99		
		Too steep for sprinkler application	0.78		
18D:					
Marrowbone	50	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
				Too steep for surface application	1.00
		Too steep for sprinkler application	1.00		
				Depth to bedrock	1.00
		Droughty	1.00		
Gilpin	45	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
18E:					
Marrowbone----------	60	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Droughty	1.00	Depth to bedrock	1.00
Gilpin----------	35	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	0.99	Depth to bedrock	1.00
18F:					
Marrowbone----------	75	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Droughty	1.00	Depth to bedrock	1.00
Gilpin----------	15	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	0.99	Depth to bedrock	1.00
19F:					
Matewan----------	55	Very limited		Very limited	
		Filtering capacity	1.00	Seepage	1.00
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Depth to bedrock	1.00
Gilpin----------	30	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	0.99	Depth to bedrock	1.00
Rock outcrop--------	10	Not rated		Not rated	

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
20A:					
Philo	95	Very limited		Very limited	
		Depth to saturated zone	1.00	Flooding	1.00
		Too acid	0.96	Depth to saturated zone	1.00
		Flooding	0.60	Seepage	1.00
21F:					
Ramsey	55	Very limited		Very limited	
		Droughty	1.00	Seepage	1.00
		Too steep for surface application	1.00	Depth to bedrock	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
Alticrest	20	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Too acid	1.00	Depth to bedrock	1.00
Rock outcrop	15	Not rated		Not rated	
22E:					
Sewell, unstable fill	85	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Too acid	1.00	Too acid	1.00
22F:					
Sewell, unstable fill	85	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Too acid	1.00	Too acid	
23F:					
Shelocta	70	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
		Too acid	0.96	Too acid	0.96

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
23F:					
Cedarcreek, unstable fill	25	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Too acid	1.00
		Too acid	1.00		
24E:					
Shelocta	65	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Too acid	0.96
		Too acid	0.96		
Gilpin	30	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		
24F:					
Shelocta	60	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Too acid	0.96
		Too acid	0.96		
Gilpin	35	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Depth to bedrock	1.00
		Too acid	0.99		
25F:					
Shelocta	55	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Too acid	0.96
		Too acid	0.96		

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
25F:					
Kaymine, unstable fill	40	Very limited		Very limited	
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Seepage	1.00
				Cobble content	0.27
26F:					
Stonecoal, unstable fill	85	Very limited		Very limited	
		Droughty	1.00	Seepage	1.00
		Too steep for surface application	1.00	Too steep for surface application	1.00
		Too steep for sprinkler application	1.00	Cobble content	0.87
27:					
Udorthents	45	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
28:					
Udorthents	45	Not rated		Not rated	
Urban land	35	Not rated		Not rated	
29D:					
Varilla	80	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Too acid	1.00	Too acid	1.00
30D:					
Varilla	75	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
		Too steep for sprinkler application	1.00	Too steep for surface application	1.00
		Too acid	1.00	Too acid	1.00
Rock outcrop	10	Not rated		Not rated	

Table 7.—Agricultural Waste Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Disposal of wastewater by irrigation: Rating class and limiting features	Value	Overland flow of wastewater: Rating class and limiting features	Value
30E:					
Varilla	75	Very limited		Very limited	
		Too steep for surface application	1.00	Seepage	1.00
				Too steep for surface application	1.00
		Too steep for sprinkler application	1.00		
				Too acid	1.00
		Too acid	1.00		
Rock outcrop	10	Not rated		Not rated	
DAM:					
Dam	100	Not rated		Not rated	
W:					
Water	100	Not rated		Not rated	

Table 7.—Agricultural Waste 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	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
1D:					
Alticrest	85	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00	Too steep for sprinkler irrigation	1.00
		Slow water movement	0.32	Depth to bedrock	1.00
1E:					
Alticrest	85	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00	Too steep for sprinkler irrigation	1.00
		Slow water movement	0.32	Depth to bedrock	1.00
2C:					
Cedarcreek	35	Very limited		Very limited	
		Slope	1.00	Too acid	1.00
		Slow water movement	1.00	Too steep for surface application	1.00
		Stone content	0.46	Too steep for sprinkler irrigation	0.22
Sewell	30	Very limited		Very limited	
		Stone content	1.00	Too acid	1.00
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	0.78	Too steep for sprinkler irrigation	0.22
Rock outcrop	10	Not rated		Not rated	
3E:					
Cloverlick	50	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
		Too acid	0.14	Too acid	0.85

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
3E:					
Shelocta----------	40	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Too acid	0.96
3F:					
Cloverlick----------	45	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Too acid	0.14	Too steep for sprinkler irrigation	1.00
				Too acid	0.85
Shelocta----------	40	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Too acid	0.96
4C:					
Cotaco----------	90	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to saturated zone	1.00		
		Slow water movement	1.00	Depth to saturated zone	0.99
				Too steep for sprinkler irrigation	0.94
5B:					
Craigsville---------	90	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Cobble content	1.00	Filtering capacity	0.99
				Too acid	0.01
6:					
Dumps, mine---------	60	Not rated		Not rated	
Urban land----------	30	Not rated		Not rated	
7D:					
Gilpin----------	80	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
8C:					
Gilpin	55	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00	Depth to bedrock	1.00
				Too acid	0.99
Berks	35	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.32	Depth to bedrock	1.00
				Too acid	0.99
8D:					
Gilpin	55	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
Berks	35	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.32	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
8E:					
Gilpin	55	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
Berks	30	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.32	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
8F:					
Gilpin	55	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00	Too steep for sprinkler irrigation	1.00
		Slow water movement	1.00	Depth to bedrock	1.00
Berks	35	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00	Too steep for sprinkler irrigation	1.00
		Slow water movement	0.32	Depth to bedrock	1.00
9A:					
Grigsby	80	Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Flooding	0.60
		Flooding	0.60	Too acid	0.42
		Slow water movement	0.32	Filtering capacity	0.01
10D:					
Highsplint	90	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
		Cobble content	0.20	Too acid	0.55
11E:					
Highsplint	50	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
		Cobble content	0.20	Too acid	0.55
Shelocta	40	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
				Too acid	0.96

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
11F:					
Highsplint----------	55	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Cobble content	0.20	Too steep for sprinkler irrigation	1.00
				Too acid	0.55
Shelocta----------	40	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Too acid	0.96
12F:					
Itmann, unstable fill----------	95	Very limited		Very limited	
		Slope	1.00	Filtering capacity	1.00
		Too acid	0.55		
				Too acid	1.00
				Too steep for surface application	1.00
13D:					
Kaymine, unstable fill----------	90	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.63	Too steep for sprinkler irrigation	1.00
14E:					
Kaymine, unstable fill----------	85	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.63	Too steep for sprinkler irrigation	1.00
Cedarcreek, unstable fill----------	15	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.46	Too steep for sprinkler irrigation	1.00
				Too acid	1.00

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
15F:					
Kaymine, unstable fill	35	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.63	Too steep for sprinkler irrigation	1.00
Cedarcreek, unstable fill	30	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.46	Too steep for sprinkler irrigation	1.00
				Too acid	1.00
Fiveblock, unstable fill	25	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Stone content	1.00		
		Slow water movement	0.78	Too steep for sprinkler irrigation	1.00
				Too acid	0.42
16C:					
Kaymine, unstable fill	55	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.63	Too steep for sprinkler irrigation	0.22
Fiveblock, unstable fill	25	Very limited		Very limited	
		Stone content	1.00	Too steep for surface application	1.00
		Slope	1.00		
		Slow water movement	0.78	Too acid	0.42
				Too steep for sprinkler irrigation	0.22
Cedarcreek, unstable fill	20	Very limited		Very limited	
		Slope	1.00	Too acid	1.00
		Slow water movement	1.00	Too steep for surface application	1.00
		Stone content	0.46	Too steep for sprinkler irrigation	0.22

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
17F:					
Kaymine	55	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.63	Too steep for sprinkler irrigation	1.00
Sewell	30	Very limited		Very limited	
		Stone content	1.00	Too acid	1.00
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	0.78		
				Too steep for sprinkler irrigation	1.00
Rock outcrop	10	Not rated		Not rated	
18C:					
Marrowbone	50	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.32		
				Depth to bedrock	1.00
				Too steep for sprinkler irrigation	1.00
Gilpin	45	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00		
				Depth to bedrock	1.00
				Too steep for sprinkler irrigation	1.00
18D:					
Marrowbone	50	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.32		
				Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
Gilpin	45	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
18E:					
Marrowbone----------	60	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.32	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
Gilpin----------	35	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
18F:					
Marrowbone----------	75	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.32	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
Gilpin----------	15	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
19F:					
Matewan----------	55	Very limited		Very limited	
		Slope	1.00	Filtering capacity	1.00
		Depth to bedrock	1.00		
		Stone content	0.01	Too steep for surface application	1.00
				Too steep for sprinkler irrigation	1.00
Gilpin----------	30	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
Rock outcrop--------	10	Not rated		Not rated	

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
20A:					
Philo	95	Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Too acid	0.96
		Slow water movement	0.32	Flooding	0.60
21F:					
Ramsey	55	Very limited		Very limited	
		Slope	1.00	Depth to bedrock	1.00
		Depth to bedrock	1.00	Too steep for surface application	1.00
				Too steep for sprinkler irrigation	1.00
Alticrest	20	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00	Too steep for sprinkler irrigation	1.00
		Slow water movement	0.32	Depth to bedrock	1.00
Rock outcrop	15	Not rated		Not rated	
22E:					
Sewell, unstable fill	85	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Stone content	1.00	Too steep for sprinkler irrigation	1.00
		Slow water movement	0.78	Too acid	1.00
22F:					
Sewell, unstable fill	85	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Stone content	1.00	Too steep for sprinkler irrigation	1.00
		Slow water movement	0.78	Too acid	1.00
23F:					
Shelocta	70	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00	Too steep for sprinkler irrigation	1.00
				Too acid	0.96

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
23F:					
Cedarcreek, unstable fill	25	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.46	Too steep for sprinkler irrigation	1.00
				Too acid	1.00
24E:					
Shelocta	65	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Too acid	0.96
Gilpin	30	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
24F:					
Shelocta	60	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Too acid	0.96
Gilpin	35	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Depth to bedrock	1.00		
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Depth to bedrock	1.00
25F:					
Shelocta	55	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
				Too steep for sprinkler irrigation	1.00
				Too acid	0.96

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
25F:					
Kaymine, unstable fill	40	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Slow water movement	1.00		
		Stone content	0.63	Too steep for sprinkler irrigation	1.00
26F:					
Stonecoal, unstable fill	85	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Cobble content	0.87		
				Too steep for sprinkler irrigation	1.00
				Cobble content	0.87
27:					
Udorthents	45	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
28:					
Udorthents	45	Not rated		Not rated	
Urban land	35	Not rated		Not rated	
29D:					
Varilla	80	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Cobble content	1.00		
		Slow water movement	0.32		
				Too steep for sprinkler irrigation	1.00
				Too acid	1.00
30D:					
Varilla	75	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Cobble content	1.00		
		Slow water movement	0.32		
				Too steep for sprinkler irrigation	1.00
				Too acid	1.00
Rock outcrop	10	Not rated		Not rated	

Table 7.—Agricultural Waste Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Rapid infiltration of wastewater: Rating class and limiting features	Value	Slow rate treatment of wastewater: Rating class and limiting features	Value
30E:					
Varilla	75	Very limited		Very limited	
		Slope	1.00	Too steep for surface application	1.00
		Cobble content	1.00		
		Slow water movement	0.32	Too steep for sprinkler irrigation	1.00
				Too acid	1.00
Rock outcrop	10	Not rated		Not rated	
DAM:					
Dam	100	Not rated		Not rated	
W:					
Water	100	Not rated		Not rated	

Table 8.—Forestland Productivity

Map symbol and soil name	Potential productivity: Common trees	Site index	Volume of wood fiber (cu ft/ac)	Trees to manage
1D:				
Alticrest	chestnut oak	55	39	black oak, chestnut oak, eastern white pine, white oak
	scarlet oak	55	39	
	black oak	55	39	
	white oak	55	39	
	Virginia pine	55	79	
	pitch pine	55	79	
1E:				
Alticrest	chestnut oak	55	39	black oak, chestnut oak, eastern white pine, white oak
	scarlet oak	55	39	
	black oak	55	39	
	white oak	55	39	
	Virginia pine	55	79	
	pitch pine	55	79	
2C:				
Cedarcreek	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
Sewell	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
Rock outcrop.				
3E:				
Cloverlick	chestnut oak	85	65	northern red oak, white oak, yellow-poplar
	hickory	85	65	
	northern red oak	90	70	
	red maple	85	65	
	white oak	90	70	
	yellow-poplar	95	98	
Shelocta	chestnut oak	85	65	northern red oak, white oak, yellow-poplar
	hickory	85	65	
	northern red oak	90	70	
	red maple	85	65	
	white oak	90	70	
	yellow-poplar	95	98	
3F:				
Cloverlick	chestnut oak	80	62	northern red oak, white oak, yellow-poplar
	hickory	80	62	
	northern red oak	85	65	
	red maple	80	62	
	white oak	85	65	
	yellow-poplar	90	90	

Table 8.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity: Common trees	Site index	Volume of wood fiber (cu ft/ac)	Trees to manage
3F:				
Shelocta	chestnut oak	80	62	northern red oak, white oak, yellow-poplar
	hickory	80	62	
	northern red oak	85	65	
	red maple	80	62	
	white oak	85	65	
	yellow-poplar	90	90	
4C:				
Cotaco	black oak	87	72	eastern white pine, sweetgum, white oak, yellow-poplar
	Virginia pine	81	129	
	yellow-poplar	95	100	
5B:				
Craigsville	eastern white pine	90	172	eastern white pine, northern red oak, yellow-poplar
	northern red oak	80	62	
	yellow-poplar	95	100	
6. Dumps, mine-Urban land				
7D:				
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
8C:				
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
Berks	black oak	60	43	black oak, hickory
	chestnut oak	60	43	
	hickory	60	38	
	scarlet oak	60	43	
8D:				
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
Berks	black oak	60	43	black oak, hickory
	chestnut oak	60	43	
	hickory	60	38	
	scarlet oak	60	43	
8E:				
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
Berks	black oak	60	43	black oak, hickory
	chestnut oak	60	43	
	hickory	60	38	
	scarlet oak	60	43	

Table 8.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity: Common trees	Site index	Volume of wood fiber	Trees to manage
			cu ft/ac	
8F:				
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
Berks	black oak	60	43	black oak, hickory
	chestnut oak	60	43	
	hickory	60	38	
	scarlet oak	60	43	
9A:				
Grigsby	red maple	80	---	black locust, black walnut, red maple
10D:				
Highsplint	chestnut oak	80	62	northern red oak, white oak, yellow-poplar
	hickory	80	62	
	northern red oak	85	65	
	red maple	80	62	
	white oak	85	65	
	yellow-poplar	90	90	
11E:				
Highsplint	chestnut oak	80	62	northern red oak, white oak, yellow-poplar
	hickory	80	62	
	northern red oak	85	65	
	red maple	80	62	
	white oak	85	65	
	yellow-poplar	90	90	
Shelocta	chestnut oak	80	62	northern red oak, white oak, yellow-poplar
	hickory	80	62	
	northern red oak	85	65	
	red maple	80	62	
	white oak	85	65	
	yellow-poplar	90	90	
11F:				
Highsplint	chestnut oak	75	57	northern red oak, white oak, yellow-poplar
	hickory	75	53	
	northern red oak	80	62	
	red maple	75	53	
	white oak	80	62	
	yellow-poplar	85	80	
Shelocta	chestnut oak	75	57	northern red oak, white oak, yellow-poplar
	hickory	75	53	
	northern red oak	80	62	
	red maple	75	53	
	white oak	80	62	
	yellow-poplar	85	80	
12F.				
Itmann, unstable fill				

Table 8.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity: Common trees	Site index	Volume of wood fiber (cu ft/ac)	Trees to manage
13D:				
Kaymine, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
14E:				
Kaymine, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
Cedarcreek, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
15F:				
Kaymine, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	---	---	
	yellow-poplar	105	114	
Cedarcreek, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
Fiveblock, unstable fill	American sycamore	90	---	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	eastern white pine	94	175	
	northern red oak	80	62	
	yellow-poplar	105	114	
16C:				
Kaymine, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
Fiveblock, unstable fill	American sycamore	90	---	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	eastern white pine	94	175	
	northern red oak	80	62	
	yellow-poplar	105	114	

Table 8.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity: Common trees	Site index	Volume of wood fiber (cu ft/ac)	Trees to manage
16C:				
Cedarcreek, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
17F:				
Kaymine	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
Sewell	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
Rock outcrop.				
18C:				
Marrowbone	chestnut oak	50	35	hickory
	hickory	50	33	
	scarlet oak	50	35	
	Virginia pine	50	---	
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
18D:				
Marrowbone	chestnut oak	50	35	hickory
	hickory	50	33	
	scarlet oak	50	35	
	Virginia pine	50	---	
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
18E:				
Marrowbone	chestnut oak	50	35	hickory
	hickory	50	33	
	scarlet oak	50	35	
	Virginia pine	50	---	
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	

Table 8.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity: Common trees	Site index	Volume of wood fiber (cu ft/ac)	Trees to manage
18F:				
Marrowbone	chestnut oak	50	35	hickory
	hickory	50	33	
	scarlet oak	50	35	
	Virginia pine	50	---	
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
19F:				
Matewan	chestnut oak	45	30	chestnut oak, scarlet oak
	scarlet oak	45	30	
	Virginia pine	45	55	
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
Rock outcrop.				
20A:				
Philo	yellow-poplar	90	90	walnut, yellow-poplar
	black walnut	75	53	
	red maple	75	---	
21F:				
Ramsey	chestnut oak	50	35	black oak, chestnut oak, eastern white pine, shortleaf pine, Table Mountain pine, white oak
	scarlet oak	45	30	
	black oak	50	35	
	white oak	50	35	
	Virginia pine	50	---	
	shortleaf pine	50	---	
	Table Mountain pine	50	---	
Alticrest	chestnut oak	55	39	black oak, chestnut oak, eastern white pine, white oak
	scarlet oak	55	39	
	black oak	55	39	
	white oak	55	39	
	Virginia pine	55	79	
	pitch pine	55	79	
Rock outcrop.				
22E:				
Sewell, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
22F:				
Sewell, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	

Table 8.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity: Common trees	Site index	Volume of wood fiber (cu ft/ac)	Trees to manage
23F:				
Shelocta	hickory	80	62	northern red oak, white oak, yellow-poplar
	northern red oak	85	65	
	red maple	80	62	
	white oak	85	65	
	yellow-poplar	90	90	
Cedarcreek, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
24E:				
Shelocta	chestnut oak	80	62	northern red oak, white oak, yellow-poplar
	hickory	80	62	
	northern red oak	85	65	
	red maple	80	62	
	white oak	85	65	
	yellow-poplar	90	90	
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
24F:				
Shelocta	chestnut oak	75	57	northern red oak, white oak, yellow-poplar
	hickory	75	53	
	northern red oak	80	62	
	red maple	75	53	
	white oak	80	62	
	yellow-poplar	85	80	
Gilpin	black oak	65	47	black oak, hickory
	chestnut oak	65	47	
	hickory	65	41	
	scarlet oak	65	47	
25F:				
Shelocta	hickory	80	62	northern red oak, white oak, yellow-poplar
	northern red oak	85	65	
	red maple	80	62	
	white oak	85	65	
	yellow-poplar	90	90	
Kaymine, unstable fill	American sycamore	90	100	American sycamore, black locust, eastern white pine, northern red oak, yellow-poplar
	black locust	100	---	
	eastern white pine	94	172	
	northern red oak	80	62	
	red maple	75	---	
	yellow-poplar	105	114	
26F.				
Stonecoal, unstable fill				

Table 8.—Forestland Productivity—Continued

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
27. Udorthents-Urban land				
28. Udorthents-Urban land				
29D:				
Varilla	chestnut oak	75	57	northern red oak, white oak, yellow-poplar
	hickory	75	53	
	northern red oak	75	57	
	red maple	65	41	
	white oak	75	57	
	yellow-poplar	90	90	
30D:				
Varilla	chestnut oak	75	57	northern red oak, white oak, yellow-poplar
	hickory	75	53	
	northern red oak	75	57	
	red maple	65	41	
	white oak	75	57	
	yellow-poplar	90	90	
Rock outcrop.				
30E:				
Varilla	chestnut oak	75	57	northern red oak, white oak, yellow-poplar
	hickory	75	53	
	northern red oak	75	57	
	red maple	65	41	
	white oak	75	57	
	yellow-poplar	90	90	
Rock outcrop.				
DAM. Dam				
W. Water				

Table 9.—Forestland 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	Pct. of map unit	Limitations affecting construction of haul roads and log landings: Rating class and limiting features	Value	Suitability for log landings: Rating class and limiting features	Value	Soil rutting hazard: Rating class and limiting features	Value
1D:							
Alticrest	85	Moderate		Poorly suited		Moderate	
		Landslides	0.60	Slope	1.00	Low strength	0.50
		Slope	0.50	Landslides	0.60		
		Restrictive layer	0.50				
1E:							
Alticrest	85	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	0.60	Landslides	0.60		
2C:							
Cedarcreek	35	Severe		Moderately suited		Moderate	
		Stoniness	1.00	Slope	0.50	Low strength	0.50
		Landslides	0.03	Landslides	0.03		
Sewell	30	Severe		Moderately suited		Moderate	
		Stoniness	1.00	Slope	0.50	Low strength	0.50
		Landslides	0.03	Landslides	0.03		
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	1.00	Landslides	1.00		
				Low strength	0.50		
Shelocta	40	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
3F:							
Cloverlick	45	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	1.00	Landslides	1.00		
				Low strength	0.50		
Shelocta	40	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
4C:							
Cotaco	90	Moderate		Moderately suited		Severe	
		Low strength	0.50	Slope	0.50	Low strength	1.00
				Low strength	0.50		
5B:							
Craigsville	90	Severe		Poorly suited		Moderate	
		Flooding	1.00	Flooding	1.00	Low strength	0.50

Table 9.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings: Rating class and limiting features	Value	Suitability for log landings: Rating class and limiting features	Value	Soil rutting hazard: Rating class and limiting features	Value
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
7D:							
Gilpin	80	Moderate		Poorly suited		Severe	
		Landslides	0.60	Slope	1.00	Low strength	1.00
		Slope	0.50	Landslides	0.60		
		Restrictive layer	0.50	Low strength	0.50		
8C:							
Gilpin	55	Moderate		Moderately suited		Severe	
		Restrictive layer	0.50	Slope	0.50	Low strength	1.00
		Low strength	0.50	Low strength	0.50		
		Landslides	0.15	Landslides	0.15		
Berks	35	Moderate		Moderately suited		Severe	
		Restrictive layer	0.50	Slope	0.50	Low strength	1.00
		Landslides	0.05	Low strength	0.50		
				Landslides	0.05		
8D:							
Gilpin	55	Moderate		Poorly suited		Severe	
		Restrictive layer	0.50	Slope	1.00	Low strength	1.00
		Slope	0.50	Low strength	0.50		
		Landslides	0.45	Landslides	0.45		
Berks	35	Moderate		Poorly suited		Severe	
		Restrictive layer	0.50	Slope	1.00	Low strength	1.00
		Slope	0.50	Low strength	0.50		
		Landslides	0.45	Landslides	0.45		
8E:							
Gilpin	55	Moderate		Poorly suited		Severe	
		Landslides	0.60	Slope	1.00	Low strength	1.00
		Slope	0.50	Landslides	0.60		
		Restrictive layer	0.50	Low strength	0.50		
Berks	30	Moderate		Poorly suited		Severe	
		Landslides	0.60	Slope	1.00	Low strength	1.00
		Slope	0.50	Landslides	0.60		
		Restrictive layer	0.50	Low strength	0.50		
8F:							
Gilpin	55	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	0.60	Landslides	0.60		
		Low strength	0.50	Low strength	0.50		
Berks	35	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	0.60	Landslides	0.60		
				Low strength	0.50		
9A:							
Grigsby	80	Severe		Poorly suited		Moderate	
		Flooding	1.00	Flooding	1.00	Low strength	0.50
		Sandiness	0.50				

Table 9.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings: Rating class and limiting features	Value	Suitability for log landings: Rating class and limiting features	Value	Soil rutting hazard: Rating class and limiting features	Value
10D:							
Highsplint	90	Severe		Poorly suited		Severe	
		Landslides	1.00	Slope	1.00	Low strength	1.00
		Slope	0.50	Landslides	1.00		
				Low strength	0.50		
11E:							
Highsplint	50	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	1.00	Landslides	1.00		
				Low strength	0.50		
Shelocta	40	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
11F:							
Highsplint	55	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	1.00	Landslides	1.00		
				Low strength	0.50		
Shelocta	40	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
12F:							
Itmann, unstable fill	95	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
13D:							
Kaymine, unstable fill	90	Moderate		Poorly suited		Slight	
		Landslides	0.60	Slope	1.00	Strength	0.10
		Slope	0.50	Landslides	0.60		
		Stoniness	0.50	Rock fragments	0.50		
14E:							
Kaymine, unstable fill	85	Severe		Poorly suited		Slight	
		Slope	1.00	Slope	1.00	Strength	0.10
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
Cedarcreek, unstable fill	15	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
15F:							
Kaymine, unstable fill	35	Severe		Poorly suited		Slight	
		Slope	1.00	Slope	1.00	Strength	0.10
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		

Table 9.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings: Rating class and limiting features	Value	Suitability for log landings: Rating class and limiting features	Value	Soil rutting hazard: Rating class and limiting features	Value
15F:							
Cedarcreek, unstable fill	30	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
Fiveblock, unstable fill	25	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
16C:							
Kaymine, unstable fill	55	Severe		Moderately suited		Slight	
		Stoniness	1.00	Rock fragments	0.50	Strength	0.10
		Landslides	0.03	Slope	0.50		
				Landslides	0.03		
Fiveblock, unstable fill	25	Severe		Moderately suited		Moderate	
		Stoniness	1.00	Rock fragments	0.50	Low strength	0.50
		Sandiness	0.50	Slope	0.50		
		Landslides	0.03	Sandiness	0.50		
Cedarcreek, unstable fill	20	Severe		Moderately suited		Moderate	
		Stoniness	1.00	Rock fragments	0.50	Low strength	0.50
		Landslides	0.03	Slope	0.50		
				Landslides	0.03		
17F:							
Kaymine	55	Severe		Poorly suited		Slight	
		Slope	1.00	Slope	1.00	Strength	0.10
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
Sewell	30	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
Rock outcrop	10	Not rated		Not rated		Not rated	
18C:							
Marrowbone	50	Slight		Moderately suited		Moderate	
		Landslides	0.21	Slope	0.50	Low strength	0.50
				Landslides	0.21		
Gilpin	45	Moderate		Moderately suited		Severe	
		Restrictive layer	0.50	Slope	0.50	Low strength	1.00
		Low strength	0.50	Low strength	0.50		
		Landslides	0.21	Landslides	0.21		

Table 9.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings: Rating class and limiting features	Value	Suitability for log landings: Rating class and limiting features	Value	Soil rutting hazard: Rating class and limiting features	Value
18D:							
Marrowbone	50	Moderate		Poorly suited		Moderate	
		Restrictive layer	0.50	Slope	1.00	Low strength	0.50
		Slope	0.50	Landslides	0.45		
		Landslides	0.45				
Gilpin	45	Moderate		Poorly suited		Severe	
		Restrictive layer	0.50	Slope	1.00	Low strength	1.00
		Slope	0.50	Low strength	0.50		
		Landslides	0.45	Landslides	0.45		
18E:							
Marrowbone	60	Moderate		Poorly suited		Moderate	
		Landslides	0.60	Slope	1.00	Low strength	0.50
		Slope	0.50	Landslides	0.60		
		Restrictive layer	0.50				
Gilpin	35	Moderate		Poorly suited		Severe	
		Landslides	0.60	Slope	1.00	Low strength	1.00
		Slope	0.50	Landslides	0.60		
		Restrictive layer	0.50	Low strength	0.50		
18F:							
Marrowbone	75	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	0.60	Landslides	0.60		
Gilpin	15	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	0.60	Landslides	0.60		
		Low strength	0.50	Low strength	0.50		
19F:							
Matewan	55	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
Gilpin	30	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	0.60	Landslides	0.60		
		Stoniness	0.50	Rock fragments	0.50		
Rock outcrop	10	Not rated		Not rated		Not rated	
20A:							
Philo	95	Severe		Poorly suited		Severe	
		Flooding	1.00	Flooding	1.00	Low strength	1.00
		Low strength	0.50	Low strength	0.50		
21F:							
Ramsey	55	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	0.20	Landslides	0.20		
Alticrest	20	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	0.60	Landslides	0.60		
Rock outcrop	15	Not rated		Not rated		Not rated	

Table 9.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings: Rating class and limiting features	Value	Suitability for log landings: Rating class and limiting features	Value	Soil rutting hazard: Rating class and limiting features	Value
22E:							
Sewell, unstable fill	85	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
22F:							
Sewell, unstable fill	85	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	0.50		
23F:							
Shelocta	70	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
				Rock fragments	0.50		
Cedarcreek, unstable fill	25	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
				Rock fragments	0.50		
24E:							
Shelocta	65	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
Gilpin	30	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	0.60	Landslides	0.60		
		Low strength	0.50	Low strength	0.50		
24F:							
Shelocta	60	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
Gilpin	35	Severe		Poorly suited		Severe	
		Slope	1.00	Slope	1.00	Low strength	1.00
		Landslides	0.60	Landslides	0.60		
		Low strength	0.50	Low strength	0.50		
25F:							
Shelocta	55	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
				Rock fragments	0.50		
Kaymine, unstable fill	40	Severe		Poorly suited		Slight	
		Slope	1.00	Slope	1.00	Strength	0.10
		Landslides	1.00	Landslides	1.00		
				Rock fragments	0.50		

Table 9.—Forestland Management, Part I—Continued

Map symbol and soil name	Pct. of map unit	Limitations affecting construction of haul roads and log landings: Rating class and limiting features	Value	Suitability for log landings: Rating class and limiting features	Value	Soil rutting hazard: Rating class and limiting features	Value
26F:							
Stonecoal, unstable fill	85	Severe		Poorly suited		Slight	
		Slope	1.00	Slope	1.00	Strength	0.10
		Landslides	1.00	Landslides	1.00		
				Sandiness	0.50		
27:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	
29D:							
Varilla	80	Moderate		Poorly suited		Moderate	
		Landslides	0.60	Slope	1.00	Low strength	0.50
		Slope	0.50	Landslides	0.60		
		Stoniness	0.50	Rock fragments	0.50		
30D:							
Varilla	75	Moderate		Poorly suited		Moderate	
		Landslides	0.60	Slope	1.00	Low strength	0.50
		Slope	0.50	Rock fragments	1.00		
		Stoniness	0.50	Landslides	0.60		
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Severe		Poorly suited		Moderate	
		Slope	1.00	Slope	1.00	Low strength	0.50
		Landslides	1.00	Landslides	1.00		
		Stoniness	0.50	Rock fragments	1.00		
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 9.—Forestland 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	Pct. of map unit	Hazard of off-road or off-trail erosion: Rating class and limiting features	Value	Hazard of erosion on roads and trails: Rating class and limiting features	Value	Suitability for roads (natural surface): Rating class and limiting features	Value
1D:							
Alticrest	85	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
1E:							
Alticrest	85	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
2C:							
Cedarcreek	35	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Landslides	0.03
Sewell	30	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Slope	0.50
						Landslides	0.03
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Low strength	0.50
Shelocta	40	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
3F:							
Cloverlick	45	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Low strength	0.50
Shelocta	40	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
4C:							
Cotaco	90	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
5B:							
Craigsville	90	Slight		Slight		Poorly suited	
						Flooding	1.00
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	

Table 9.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion: Rating class and limiting features	Value	Hazard of erosion on roads and trails: Rating class and limiting features	Value	Suitability for roads (natural surface): Rating class and limiting features	Value
7D:							
Gilpin	80	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
						Low strength	0.50
8C:							
Gilpin	55	Moderate		Severe		Moderately suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Landslides	0.15
Berks	35	Moderate		Severe		Moderately suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Landslides	0.05
8D:							
Gilpin	55	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Landslides	0.45
Berks	35	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Landslides	0.45
8E:							
Gilpin	55	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
						Low strength	0.50
Berks	30	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
						Low strength	0.50
8F:							
Gilpin	55	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
						Low strength	0.50
Berks	35	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
						Low strength	0.50
9A:							
Grigsby	80	Slight		Slight		Poorly suited	
						Flooding	1.00
10D:							
Highsplint	90	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Low strength	0.50

Table 9.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion: Rating class and limiting features	Value	Hazard of erosion on roads and trails: Rating class and limiting features	Value	Suitability for roads (natural surface): Rating class and limiting features	Value
11E:							
Highsplint	50	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Low strength	0.50
Shelocta	40	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
11F:							
Highsplint	55	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Low strength	0.50
Shelocta	40	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
12F:							
Itmann, unstable fill	95	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
13D:							
Kaymine, unstable fill	90	Moderate		Moderate		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.50	Slope	1.00
						Landslides	0.60
						Rock fragments	0.50
14E:							
Kaymine, unstable fill	85	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
Cedarcreek, unstable fill	15	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
15F:							
Kaymine, unstable fill	35	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
Cedarcreek, unstable fill	30	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50

Table 9.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion: Rating class and limiting features	Value	Hazard of erosion on roads and trails: Rating class and limiting features	Value	Suitability for roads (natural surface): Rating class and limiting features	Value
15F:							
Fiveblock, unstable fill	25	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
16C:							
Kaymine, unstable fill	55	Slight		Slight		Moderately suited	
						Rock fragments	0.50
						Slope	0.50
						Landslides	0.03
Fiveblock, unstable fill	25	Slight		Slight		Moderately suited	
						Rock fragments	0.50
						Slope	0.50
						Sandiness	0.50
Cedarcreek, unstable fill	20	Slight		Moderate		Moderately suited	
				Slope/erodibility	0.50	Rock fragments	0.50
						Slope	0.50
						Landslides	0.03
17F:							
Kaymine	55	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
Sewell	30	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
Rock outcrop	10	Not rated		Not rated		Not rated	
18C:							
Marrowbone	50	Slight		Severe		Moderately suited	
				Slope/erodibility	0.95	Slope	0.50
						Landslides	0.21
Gilpin	45	Moderate		Severe		Moderately suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	0.50
						Low strength	0.50
						Landslides	0.21
18D:							
Marrowbone	50	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.45
Gilpin	45	Moderate		Severe		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.95	Slope	1.00
						Low strength	0.50
						Landslides	0.45

Table 9.—Forestland Management, Part II—Continued

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Table 9.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion: Rating class and limiting features	Value	Hazard of erosion on roads and trails: Rating class and limiting features	Value	Suitability for roads (natural surface): Rating class and limiting features	Value
22F:							
Sewell, unstable fill	85	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
23F:							
Shelocta	70	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
Cedarcreek, unstable fill	25	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
24E:							
Shelocta	65	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
Gilpin	30	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
						Low strength	0.50
24F:							
Shelocta	60	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
Gilpin	35	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	0.60
						Low strength	0.50
25F:							
Shelocta	55	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
Kaymine, unstable fill	40	Very severe		Severe		Poorly suited	
		Slope/erodibility	0.95	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	0.50
26F:							
Stonecoal, unstable fill	85	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Sandiness	0.50

Table 9.—Forestland Management, Part II—Continued

Map symbol and soil name	Pct. of map unit	Hazard of off-road or off-trail erosion: Rating class and limiting features	Value	Hazard of erosion on roads and trails: Rating class and limiting features	Value	Suitability for roads (natural surface): Rating class and limiting features	Value
27:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	
29D:							
Varilla	80	Moderate		Moderate		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.50	Slope	1.00
						Landslides	0.60
						Rock fragments	0.50
30D:							
Varilla	75	Moderate		Moderate		Poorly suited	
		Slope/erodibility	0.50	Slope/erodibility	0.50	Slope	1.00
						Rock fragments	1.00
						Landslides	0.60
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Severe		Severe		Poorly suited	
		Slope/erodibility	0.75	Slope/erodibility	0.95	Slope	1.00
						Landslides	1.00
						Rock fragments	1.00
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 9.—Forestland 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	Pct. of map unit	Suitability for hand planting: Rating class and limiting features	Value	Suitability for mechanical planting: Rating class and limiting features	Value	Suitability for use of harvesting equipment: Rating class and limiting features	Value
1D:							
Alticrest	85	Well suited		Poorly suited		Moderately suited	
				Slope	0.75	Slope	0.50
1E:							
Alticrest	85	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
2C:							
Cedarcreek	35	Well suited		Moderately suited		Well suited	
				Rock fragments	0.50		
				Slope	0.50		
Sewell	30	Moderately suited		Poorly suited		Well suited	
		Rock fragments	0.50	Rock fragments	0.75		
				Slope	0.50		
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Low strength	0.50
Shelocta	40	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50		
3F:							
Cloverlick	45	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Low strength	0.50
Shelocta	40	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50		
4C:							
Cotaco	90	Well suited		Moderately suited		Moderately suited	
				Slope	0.50	Low strength	0.50
5B:							
Craigsville	90	Well suited		Moderately suited		Well suited	
				Rock fragments	0.50		
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
7D:							
Gilpin	80	Well suited		Poorly suited		Moderately suited	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50	Slope	0.50

Table 9.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting: Rating class and limiting features	Value	Suitability for mechanical planting: Rating class and limiting features	Value	Suitability for use of harvesting equipment: Rating class and limiting features	Value
8C:							
Gilpin	55	Well suited		Moderately suited		Moderately suited	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
Berks	35	Moderately suited		Poorly suited		Moderately suited	
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
				Slope	0.50		
8D:							
Gilpin	55	Well suited		Poorly suited		Moderately suited	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50	Slope	0.50
Berks	35	Moderately suited		Poorly suited		Moderately suited	
		Rock fragments	0.50	Slope	0.75	Low strength	0.50
				Rock fragments	0.75	Slope	0.50
8E:							
Gilpin	55	Well suited		Unsuited		Moderately suited	
				Slope	1.00	Low strength	0.50
				Rock fragments	0.50	Slope	0.50
Berks	30	Moderately suited		Unsuited		Moderately suited	
		Rock fragments	0.50	Slope	1.00	Low strength	0.50
				Rock fragments	0.75	Slope	0.50
8F:							
Gilpin	55	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Low strength	0.50
Berks	35	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Low strength	0.50
9A:							
Grigsby	80	Well suited		Well suited		Well suited	
10D:							
Highsplint	90	Well suited		Poorly suited		Moderately suited	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50	Slope	0.50
11E:							
Highsplint	50	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Low strength	0.50
Shelocta	40	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50		
11F:							
Highsplint	55	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Low strength	0.50
Shelocta	40	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50		

Table 9.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting: Rating class and limiting features	Value	Suitability for mechanical planting: Rating class and limiting features	Value	Suitability for use of harvesting equipment: Rating class and limiting features	Value
12F:							
Itmann, unstable fill	95	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50		
13D:							
Kaymine, unstable fill	90	Moderately suited		Poorly suited		Moderately suited	
		Rock fragments	0.50	Slope	0.75	Rock fragments	0.50
				Rock fragments	0.75	Slope	0.50
14E:							
Kaymine, unstable fill	85	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
Cedarcreek, unstable fill	15	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
15F:							
Kaymine, unstable fill	35	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
Cedarcreek, unstable fill	30	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
Fiveblock, unstable fill	25	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Sandiness	0.50	Rock fragments	0.75	Rock fragments	0.50
		Rock fragments	0.50	Sandiness	0.50	Sandiness	0.50
16C:							
Kaymine, unstable fill	55	Moderately suited		Poorly suited		Moderately suited	
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
				Slope	0.50		
Fiveblock, unstable fill	25	Moderately suited		Poorly suited		Moderately suited	
		Sandiness	0.50	Rock fragments	0.75	Rock fragments	0.50
		Rock fragments	0.50	Sandiness	0.50	Sandiness	0.50
				Slope	0.50		
Cedarcreek, unstable fill	20	Moderately suited		Poorly suited		Moderately suited	
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
				Slope	0.50		

Table 9.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting: Rating class and limiting features	Value	Suitability for mechanical planting: Rating class and limiting features	Value	Suitability for use of harvesting equipment: Rating class and limiting features	Value
17F:							
Kaymine	55	Moderately suited		Unsuited		Poorly suited	
		Rock fragments	0.50	Slope	1.00	Slope	1.00
		Slope	0.50	Rock fragments	0.75	Rock fragments	0.50
Sewell	30	Moderately suited		Unsuited		Poorly suited	
		Rock fragments	0.50	Slope	1.00	Slope	1.00
		Slope	0.50	Rock fragments	0.75	Rock fragments	0.50
Rock outcrop	10	Not rated		Not rated		Not rated	
18C:							
Marrowbone	50	Well suited		Moderately suited		Well suited	
				Slope	0.50		
				Rock fragments	0.50		
Gilpin	45	Well suited		Moderately suited		Moderately suited	
				Slope	0.50	Low strength	0.50
				Rock fragments	0.50		
18D:							
Marrowbone	50	Well suited		Poorly suited		Moderately suited	
				Slope	0.75	Slope	0.50
				Rock fragments	0.50		
Gilpin	45	Well suited		Poorly suited		Moderately suited	
				Slope	0.75	Low strength	0.50
				Rock fragments	0.50	Slope	0.50
18E:							
Marrowbone	60	Well suited		Unsuited		Moderately suited	
				Slope	1.00	Slope	0.50
				Rock fragments	0.50		
Gilpin	35	Well suited		Unsuited		Moderately suited	
				Slope	1.00	Low strength	0.50
				Rock fragments	0.50	Slope	0.50
18F:							
Marrowbone	75	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50		
Gilpin	15	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Low strength	0.50
19F:							
Matewan	55	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
Gilpin	30	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
						Low strength	0.50
Rock outcrop	10	Not rated		Not rated		Not rated	

Table 9.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting: Rating class and limiting features	Value	Suitability for mechanical planting: Rating class and limiting features	Value	Suitability for use of harvesting equipment: Rating class and limiting features	Value
20A:							
Philo	95	Well suited		Well suited		Moderately suited	
						Low strength	0.50
21F:							
Ramsey	55	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
Alticrest	20	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
Rock outcrop	15	Not rated		Not rated		Not rated	
22E:							
Sewell, unstable fill	85	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
22F:							
Sewell, unstable fill	85	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
23F:							
Shelocta	70	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Rock fragments	0.50
Cedarcreek, unstable fill	25	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Rock fragments	0.50
24E:							
Shelocta	65	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50		
Gilpin	30	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Low strength	0.50
24F:							
Shelocta	60	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50		
Gilpin	35	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Low strength	0.50
25F:							
Shelocta	55	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
				Rock fragments	0.50	Rock fragments	0.50

Table 9.—Forestland Management, Part III—Continued

Map symbol and soil name	Pct. of map unit	Suitability for hand planting: Rating class and limiting features	Value	Suitability for mechanical planting: Rating class and limiting features	Value	Suitability for use of harvesting equipment: Rating class and limiting features	Value
25F:							
Kaymine, unstable fill	40	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.75	Rock fragments	0.50
26F:							
Stonecoal, unstable fill	85	Moderately suited		Unsuited		Poorly suited	
		Sandiness	0.50	Slope	1.00	Slope	1.00
		Slope	0.50	Sandiness	0.50	Sandiness	0.50
		Rock fragments	0.50	Rock fragments	0.50		
27:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	
29D:							
Varilla	80	Moderately suited		Poorly suited		Moderately suited	
		Rock fragments	0.50	Slope	0.75	Rock fragments	0.50
				Rock fragments	0.75	Slope	0.50
30D:							
Varilla	75	Moderately suited		Poorly suited		Poorly suited	
		Rock fragments	0.50	Slope	0.75	Rock fragments	1.00
				Rock fragments	0.75	Slope	0.50
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Moderately suited		Unsuited		Poorly suited	
		Slope	0.50	Slope	1.00	Rock fragments	1.00
		Rock fragments	0.50	Rock fragments	0.75	Slope	1.00
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 9.—Forestland Management, Part IV

(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	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
1D:					
Alticrest	85	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
				Restrictive layer	0.50
1E:					
Alticrest	85	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Restrictive layer	0.50
2C:					
Cedarcreek	35	Well suited		Well suited	
Sewell	30	Poorly suited		Well suited	
		Rock fragments	0.50		
Rock outcrop	10	Not rated		Not rated	
3E:					
Cloverlick	50	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Shelocta	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
3F:					
Cloverlick	45	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Shelocta	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
4C:					
Cotaco	90	Well suited		Well suited	
5B:					
Craigsville	90	Well suited		Poorly suited	
				Rock fragments	0.50
6:					
Dumps, mine	60	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
7D:					
Gilpin	80	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
				Restrictive layer	0.50

Table 9.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface): Rating class and limiting features	Value	Suitability for mechanical site preparation (deep): Rating class and limiting features	Value
8C:					
Gilpin	55	Well suited		Poorly suited	
				Restrictive layer	0.50
Berks	35	Poorly suited		Well suited	
		Rock fragments	0.50		
8D:					
Gilpin	55	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
				Restrictive layer	0.50
Berks	35	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Rock fragments	0.50		
8E:					
Gilpin	55	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
				Restrictive layer	0.50
Berks	30	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Rock fragments	0.50		
8F:					
Gilpin	55	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Restrictive layer	0.50
Berks	35	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50		
9A:					
Grigsby	80	Well suited		Well suited	
10D:					
Highsplint	90	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
11E:					
Highsplint	50	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Shelocta	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
11F:					
Highsplint	55	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Shelocta	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
12F:					
Itmann, unstable fill	95	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00

Table 9.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
13D:					
Kaymine, unstable fill	90	Poorly suited		Poorly suited	
		Rock fragments	0.50	Slope	0.50
		Slope	0.50	Rock fragments	0.50
14E:					
Kaymine, unstable fill	85	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
Cedarcreek, unstable fill	15	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
15F:					
Kaymine, unstable fill	35	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
Cedarcreek, unstable fill	30	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
Fiveblock, unstable fill	25	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
16C:					
Kaymine, unstable fill	55	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
Fiveblock, unstable fill	25	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
Cedarcreek, unstable fill	20	Poorly suited		Poorly suited	
		Rock fragments	0.50	Rock fragments	0.50
17F:					
Kaymine	55	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
Sewell	30	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
Rock outcrop	10	Not rated		Not rated	

Table 9.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
18C:					
Marrowbone	50	Well suited		Well suited	
Gilpin	45	Well suited		Poorly suited	
				Restrictive layer	0.50
18D:					
Marrowbone	50	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
Gilpin	45	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
				Restrictive layer	0.50
18E:					
Marrowbone	60	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
Gilpin	35	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
				Restrictive layer	0.50
18F:					
Marrowbone	75	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Gilpin	15	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Restrictive layer	0.50
19F:					
Matewan	55	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
Gilpin	30	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
				Restrictive layer	0.50
Rock outcrop	10	Not rated		Not rated	
20A:					
Philo	95	Well suited		Well suited	
21F:					
Ramsey	55	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Restrictive layer	1.00
Alticrest	20	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Restrictive layer	0.50
Rock outcrop	15	Not rated		Not rated	

Table 9.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface): Rating class and limiting features	Value	Suitability for mechanical site preparation (deep): Rating class and limiting features	Value
22E:					
Sewell, unstable fill	85	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
22F:					
Sewell, unstable fill	85	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50	Rock fragments	0.50
23F:					
Shelocta	70	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50		
Cedarcreek, unstable fill	25	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50		
24E:					
Shelocta	65	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Gilpin	30	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Restrictive layer	0.50
24F:					
Shelocta	60	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
Gilpin	35	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
				Restrictive layer	0.50
25F:					
Shelocta	55	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50		
Kaymine, unstable fill	40	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50		
26F:					
Stonecoal, unstable fill	85	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	0.50		
27:					
Udorthents	45	Not rated		Not rated	
Urban land	30	Not rated		Not rated	

Table 9.—Forestland Management, Part IV—Continued

Map symbol and soil name	Pct. of map unit	Suitability for mechanical site preparation (surface)		Suitability for mechanical site preparation (deep)	
		Rating class and limiting features	Value	Rating class and limiting features	Value
28:					
Udorthents	45	Not rated		Not rated	
Urban land	35	Not rated		Not rated	
29D:					
Varilla	80	Poorly suited		Poorly suited	
		Slope	0.50	Slope	0.50
		Rock fragments	0.50	Rock fragments	0.50
30D:					
Varilla	75	Unsuited		Poorly suited	
		Rock fragments	1.00	Slope	0.50
		Slope	0.50	Rock fragments	0.50
Rock outcrop	10	Not rated		Not rated	
30E:					
Varilla	75	Unsuited		Unsuited	
		Slope	1.00	Slope	1.00
		Rock fragments	1.00	Rock fragments	0.50
Rock outcrop	10	Not rated		Not rated	
DAM:					
Dam	100	Not rated		Not rated	
W:					
Water	100	Not rated		Not rated	

Table 9.—Forestland Management, Part V

(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	Pct. of map unit	Potential for damage to soil by fire: Rating class and limiting features	Value	Potential for seedling mortality: Rating class and limiting features	Value
1D:					
Alticrest	85	High Texture/surface depth/rock fragments	1.00	Moderate Available water	0.50
1E:					
Alticrest	85	High Texture/slope/surface depth/rock fragments	1.00	Moderate Available water	0.50
2C:					
Cedarcreek	35	High Texture/surface depth/rock fragments	1.00	Low	
Sewell	30	High Texture/surface depth/rock fragments	1.00	Low	
Rock outcrop	10	Not rated		Not rated	
3E:					
Cloverlick	50	Low Texture/slope/rock fragments	0.10	Low	
Shelocta	40	Moderate Texture/slope/surface depth/rock fragments	0.50	Low	
3F:					
Cloverlick	45	Low Texture/slope/rock fragments	0.10	Low	
Shelocta	40	Moderate Texture/slope/surface depth/rock fragments	0.50	Low	
4C:					
Cotaco	90	Low Texture/rock fragments	0.10	Low	
5B:					
Craigsville	90	Low Texture/rock fragments	0.10	Low	

Table 9.—Forestland Management, Part V—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire: Rating class and limiting features	Value	Potential for seedling mortality: Rating class and limiting features	Value
6:					
Dumps, mine	60	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
7D:					
Gilpin	80	Moderate Texture/surface depth/rock fragments	0.50	Moderate Available water	0.50
8C:					
Gilpin	55	Moderate Texture/surface depth/rock fragments	0.50	Low	
Berks	35	Moderate Texture/surface depth/rock fragments	0.50	Low	
8D:					
Gilpin	55	Moderate Texture/surface depth/rock fragments	0.50	Moderate Available water	0.50
Berks	35	Moderate Texture/surface depth/rock fragments	0.50	Moderate Available water	0.50
8E:					
Gilpin	55	Moderate Texture/slope/surface depth/rock fragments	0.50	Moderate Available water	0.50
Berks	30	Moderate Texture/slope/surface depth/rock fragments	0.50	Moderate Available water	0.50
8F:					
Gilpin	55	Moderate Texture/slope/surface depth/rock fragments	0.50	Moderate Available water	0.50
Berks	35	Moderate Texture/slope/surface depth/rock fragments	0.50	Moderate Available water	0.50
9A:					
Grigsby	80	Low Texture/rock fragments	0.10	Low	

Table 9.—Forestland Management, Part V—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire: Rating class and limiting features	Value	Potential for seedling mortality: Rating class and limiting features	Value
10D:					
Highsplint----------	90	High		Moderate	
		Texture/surface depth/rock fragments	1.00	Available water	0.50
11E:					
Highsplint----------	50	High		Moderate	
		Texture/slope/surface depth/rock fragments	1.00	Available water	0.50
Shelocta----------	40	Moderate		Moderate	
		Texture/slope/surface depth/rock fragments	0.50	Available water	0.50
11F:					
Highsplint----------	55	High		Moderate	
		Texture/slope/surface depth/rock fragments	1.00	Available water	0.50
Shelocta----------	40	Moderate		Moderate	
		Texture/slope/surface depth/rock fragments	0.50	Available water	0.50
12F:					
Itmann, unstable fill----------	95	High		Moderate	
		Texture/slope/surface depth/rock fragments	1.00	Available water	0.50
				Soil reaction	0.50
13D:					
Kaymine, unstable fill----------	90	High		Moderate	
		Texture/surface depth/rock fragments	1.00	Available water	0.50
14E:					
Kaymine, unstable fill----------	85	High		Moderate	
		Texture/slope/surface depth/rock fragments	1.00	Available water	0.50
Cedarcreek, unstable fill----------	15	High		Moderate	
		Texture/slope/surface depth/rock fragments	1.00	Available water	0.50

Table 9.—Forestland Management, Part V—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire: Rating class and limiting features	Value	Potential for seedling mortality: Rating class and limiting features	Value
15F:					
Kaymine, unstable fill	35	High Texture/slope/surface depth/rock fragments	1.00	Moderate Available water	0.50
Cedarcreek, unstable fill	30	High Texture/slope/surface depth/rock fragments	1.00	Moderate Available water	0.50
Fiveblock, unstable fill	25	High Texture/slope/rock fragments	1.00	Moderate Available water	0.50
16C:					
Kaymine, unstable fill	55	High Texture/surface depth/rock fragments	1.00	Low	
Fiveblock, unstable fill	25	High Texture/rock fragments	1.00	Low	
Cedarcreek, unstable fill	20	High Texture/surface depth/rock fragments	1.00	Low	
17F:					
Kaymine	55	High Texture/slope/surface depth/rock fragments	1.00	Moderate Available water	0.50
Sewell	30	High Texture/slope/surface depth/rock fragments	1.00	Low	
Rock outcrop	10	Not rated		Not rated	
18C:					
Marrowbone	50	Moderate Texture/rock fragments	0.50	Low	
Gilpin	45	Moderate Texture/surface depth/rock fragments	0.50	Low	

Table 9.—Forestland Management, Part V—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire: Rating class and limiting features	Value	Potential for seedling mortality: Rating class and limiting features	Value
18D:					
Marrowbone	50	Moderate Texture/rock fragments	0.50	Moderate Available water	0.50
Gilpin	45	Moderate Texture/surface depth/rock fragments	0.50	Moderate Available water	0.50
18E:					
Marrowbone	60	Moderate Texture/slope/rock fragments	0.50	Moderate Available water	0.50
Gilpin	35	Moderate Texture/slope/surface depth/rock fragments	0.50	Moderate Available water	0.50
18F:					
Marrowbone	75	Moderate Texture/slope/rock fragments	0.50	Moderate Available water	0.50
Gilpin	15	Moderate Texture/slope/surface depth/rock fragments	0.50	Moderate Available water	0.50
19F:					
Matewan	55	High Texture/slope/surface depth/rock fragments	1.00	Moderate Available water	0.50
Gilpin	30	Moderate Texture/slope/surface depth/rock fragments	0.50	Moderate Available water	0.50
Rock outcrop	10	Not rated		Not rated	
20A:					
Philo	95	Low Texture/rock fragments	0.10	Low	
21F:					
Ramsey	55	Moderate Texture/slope/rock fragments	0.50	Moderate Available water	0.50
Alticrest	20	High Texture/slope/surface depth/rock fragments	1.00	Moderate Available water	0.50
Rock outcrop	15	Not rated		Not rated	

Table 9.—Forestland Management, Part V—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire: Rating class and limiting features	Value	Potential for seedling mortality: Rating class and limiting features	Value
22E:					
Sewell, unstable fill	85	High Texture/slope/ surface depth/ rock fragments	1.00	Low	
22F:					
Sewell, unstable fill	85	High Texture/slope/ surface depth/ rock fragments	1.00	Low	
23F:					
Shelocta	70	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Moderate Available water	0.50
Cedarcreek, unstable fill	25	High Texture/slope/ surface depth/ rock fragments	1.00	Moderate Available water	0.50
24E:					
Shelocta	65	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Moderate Available water	0.50
Gilpin	30	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Moderate Available water	0.50
24F:					
Shelocta	60	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Moderate Available water	0.50
Gilpin	35	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Moderate Available water	0.50
25F:					
Shelocta	55	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Moderate Available water	0.50
Kaymine, unstable fill	40	High Texture/slope/ surface depth/ rock fragments	1.00	Moderate Available water	0.50

Table 9.—Forestland Management, Part V—Continued

Map symbol and soil name	Pct. of map unit	Potential for damage to soil by fire: Rating class and limiting features	Value	Potential for seedling mortality: Rating class and limiting features	Value
26F:					
Stonecoal, unstable fill	85	High Texture/rock fragments	1.00	High Available water	1.00
27:					
Udorthents	45	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
28:					
Udorthents	45	Not rated		Not rated	
Urban land	35	Not rated		Not rated	
29D:					
Varilla	80	Moderate Texture/surface depth/rock fragments	0.50	Moderate Available water	0.50
30D:					
Varilla	75	Moderate Texture/surface depth/rock fragments	0.50	Moderate Available water	0.50
Rock outcrop	10	Not rated		Not rated	
30E:					
Varilla	75	Moderate Texture/slope/ surface depth/ rock fragments	0.50	Moderate Available water	0.50
Rock outcrop	10	Not rated		Not rated	
DAM:					
Dam	100	Not rated		Not rated	
W:					
Water	100	Not rated		Not rated	

Table 10.—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	Pct. of map unit	Camp areas: Rating class and limiting features	Value	Picnic areas: Rating class and limiting features	Value	Playgrounds: Rating class and limiting features	Value
1D:							
Alticrest	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.46
1E:							
Alticrest	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.46
2C:							
Cedarcreek	35	Somewhat limited		Somewhat limited		Very limited	
		Gravel content	0.97	Gravel content	0.97	Gravel content	1.00
		Large stones content	0.76	Large stones content	0.76	Slope	1.00
						Large stones content	0.76
		Slope	0.01	Slope	0.01		
Sewell	30	Somewhat limited		Somewhat limited		Very limited	
		Large stones content	0.76	Large stones content	0.76	Gravel content	1.00
						Slope	1.00
		Gravel content	0.08	Gravel content	0.08	Large stones content	0.76
		Slope	0.01	Slope	0.01		
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Large stones content	0.47	Large stones content	0.47	Slope	1.00
						Large stones content	0.47
		Gravel content	0.08	Gravel content	0.08		
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Large stones content	0.63	Large stones content	0.63	Slope	1.00
						Large stones content	0.63
		Gravel content	0.32	Gravel content	0.32		
3F:							
Cloverlick	45	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Large stones content	0.47	Large stones content	0.47	Slope	1.00
						Large stones content	0.47
		Gravel content	0.08	Gravel content	0.08		
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Large stones content	0.63	Large stones content	0.63	Slope	1.00
						Large stones content	0.63
		Gravel content	0.32	Gravel content	0.32		

Table 10.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas: Rating class and limiting features	Value	Picnic areas: Rating class and limiting features	Value	Playgrounds: Rating class and limiting features	Value
4C:							
Cotaco	90	Somewhat limited		Somewhat limited		Very limited	
		Depth to saturated zone	0.39	Slope	0.37	Slope	1.00
		Slope	0.37	Depth to saturated zone	0.19	Depth to saturated zone	0.39
5B:							
Craigsville	90	Very limited		Somewhat limited		Very limited	
		Flooding	1.00	Flooding	0.40	Flooding	1.00
						Slope	0.12
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
7D:							
Gilpin	80	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.10
8C:							
Gilpin	55	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.16	Slope	0.16	Slope	1.00
						Depth to bedrock	0.10
Berks	35	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.16	Slope	0.16	Slope	1.00
						Depth to bedrock	0.16
8D:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.10
Berks	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.16
8E:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.10
Berks	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.16
8F:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.10
Berks	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.16
9A:							
Grigsby	80	Very limited		Not limited		Somewhat limited	
		Flooding	1.00			Flooding	0.60

Table 10.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas: Rating class and limiting features	Value	Picnic areas: Rating class and limiting features	Value	Playgrounds: Rating class and limiting features	Value
10D:							
Highsplint----------	90	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.63	Large stones content	0.63	Gravel content	0.68
						Large stones content	0.63
11E:							
Highsplint----------	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.63	Large stones content	0.63	Gravel content	0.68
						Large stones content	0.63
Shelocta----------	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Large stones content	0.63	Large stones content	0.63	Slope	1.00
		Gravel content	0.32	Gravel content	0.32	Large stones content	0.63
11F:							
Highsplint----------	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.63	Large stones content	0.63	Gravel content	0.68
						Large stones content	0.63
Shelocta----------	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Large stones content	0.63	Large stones content	0.63	Slope	1.00
		Gravel content	0.32	Gravel content	0.32	Large stones content	0.63
12F:							
Itmann, unstable fill----------	95	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.01	Gravel content	0.01	Slope	1.00
13D:							
Kaymine, unstable fill----------	90	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.99	Gravel content	0.99	Slope	1.00
14E:							
Kaymine, unstable fill----------	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.99	Gravel content	0.99	Slope	1.00
Cedarcreek, unstable fill----------	15	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.97	Gravel content	0.97	Slope	1.00

Table 10.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas: Rating class and limiting features	Value	Picnic areas: Rating class and limiting features	Value	Playgrounds: Rating class and limiting features	Value
15F:							
Kaymine, unstable fill	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.99	Gravel content	0.99	Slope	1.00
Cedarcreek, unstable fill	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.97	Gravel content	0.97	Slope	1.00
Fiveblock, unstable fill	25	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Slope	1.00
		Gravel content	0.94	Gravel content	0.94	Gravel content	1.00
16C:							
Kaymine, unstable fill	55	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Large stones content	1.00
		Gravel content	0.99	Gravel content	0.99	Gravel content	1.00
		Slope	0.01	Slope	0.01	Slope	1.00
Fiveblock, unstable fill	25	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Large stones content	1.00
		Gravel content	0.94	Gravel content	0.94	Gravel content	1.00
		Slope	0.01	Slope	0.01	Slope	1.00
Cedarcreek, unstable fill	20	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Large stones content	1.00
		Gravel content	0.97	Gravel content	0.97	Gravel content	1.00
		Slope	0.01	Slope	0.01	Slope	1.00
17F:							
Kaymine	55	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Large stones content	1.00
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.99	Gravel content	0.99	Slope	1.00
Sewell	30	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Large stones content	1.00
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.08	Gravel content	0.08	Slope	1.00
Rock outcrop	10	Not rated		Not rated		Not rated	

Table 10.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas: Rating class and limiting features	Value	Picnic areas: Rating class and limiting features	Value	Playgrounds: Rating class and limiting features	Value
18C:							
Marrowbone----------	50	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
						Depth to bedrock	0.20
Gilpin----------	45	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.63	Slope	0.63	Slope	1.00
						Depth to bedrock	0.10
18D:							
Marrowbone----------	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.20
Gilpin----------	45	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.10
18E:							
Marrowbone----------	60	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.20
Gilpin----------	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.10
18F:							
Marrowbone----------	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.20
Gilpin----------	15	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.10
19F:							
Matewan----------	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Slope	1.00
						Gravel content	0.20
Gilpin----------	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.10
Rock outcrop--------	10	Not rated		Not rated		Not rated	
20A:							
Philo----------	95	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Depth to saturated zone	0.60	Depth to saturated zone	0.90
		Depth to saturated zone	0.90	Too sandy	0.01	Flooding	0.60
		Too sandy	0.01			Too sandy	0.01

Table 10.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas: Rating class and limiting features	Value	Picnic areas: Rating class and limiting features	Value	Playgrounds: Rating class and limiting features	Value
21F:							
Ramsey	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
Alticrest	20	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
						Depth to bedrock	0.46
Rock outcrop	15	Not rated		Not rated		Not rated	
22E:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Slope	1.00
		Gravel content	0.08	Gravel content	0.08	Gravel content	1.00
22F:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Slope	1.00
		Gravel content	0.08	Gravel content	0.08	Gravel content	1.00
23F:							
Shelocta	70	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.32	Gravel content	0.32	Slope	1.00
		Large stones content	0.31	Large stones content	0.31	Large stones content	0.31
Cedarcreek, unstable fill	25	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.97	Gravel content	0.97	Slope	1.00
		Large stones content	0.31	Large stones content	0.31	Large stones content	0.31
24E:							
Shelocta	65	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.32	Gravel content	0.32	Slope	1.00
		Large stones content	0.31	Large stones content	0.31	Large stones content	0.31
Gilpin	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.31	Large stones content	0.31	Large stones content	0.31
						Depth to bedrock	0.10
24F:							
Shelocta	60	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.32	Gravel content	0.32	Slope	1.00
		Large stones content	0.31	Large stones content	0.31	Large stones content	0.31

Table 10.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas: Rating class and limiting features	Value	Picnic areas: Rating class and limiting features	Value	Playgrounds: Rating class and limiting features	Value
24F:							
Gilpin	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.31	Large stones content	0.31	Large stones content	0.31
						Depth to bedrock	0.10
25F:							
Shelocta	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.32	Gravel content	0.32	Slope	1.00
		Large stones content	0.31	Large stones content	0.31	Large stones content	0.31
Kaymine, unstable fill	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Gravel content	0.99	Gravel content	0.99	Slope	1.00
		Large stones content	0.31	Large stones content	0.31	Large stones content	0.31
26F:							
Stonecoal, unstable fill	85	Very limited		Very limited		Very limited	
		Gravel content	1.00	Gravel content	1.00	Gravel content	1.00
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.02	Large stones content	0.02	Large stones content	0.02
27:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	
29D:							
Varilla	80	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Slope	1.00
						Gravel content	0.78
30D:							
Varilla	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Slope	1.00
						Gravel content	0.78
Rock outcrop	10	Not rated		Not rated		Not rated	

Table 10.—Recreational Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Camp areas: Rating class and limiting features	Camp areas: Value	Picnic areas: Rating class and limiting features	Picnic areas: Value	Playgrounds: Rating class and limiting features	Playgrounds: Value
30E:							
Varilla	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Large stones content	1.00	Large stones content	1.00
		Large stones content	1.00	Too steep	1.00	Slope	1.00
						Gravel content	0.78
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 10.—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	Pct. of map unit	Paths and trails: Rating class and limiting features	Value	Off-road motorcycle trails: Rating class and limiting features	Value	Golf fairways: Rating class and limiting features	Value
1D:							
Alticrest	85	Very limited		Not limited		Very limited	
		Slope	1.00			Too steep	1.00
						Depth to bedrock	0.46
						Droughty	0.08
1E:							
Alticrest	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
						Depth to bedrock	0.46
						Droughty	0.08
2C:							
Cedarcreek	35	Somewhat limited		Somewhat limited		Somewhat limited	
		Large stones content	0.76	Large stones content	0.76	Gravel content	0.97
						Droughty	0.88
						Large stones content	0.38
Sewell	30	Somewhat limited		Somewhat limited		Very limited	
		Large stones content	0.76	Large stones content	0.76	Droughty	1.00
						Large stones content	0.26
						Gravel content	0.08
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.47	Large stones content	0.47	Gravel content	0.08
Shelocta	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.63	Large stones content	0.63	Gravel content	0.32
3F:							
Cloverlick	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.47	Large stones content	0.47	Gravel content	0.08
Shelocta	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.63	Large stones content	0.63	Gravel content	0.32
4C:							
Cotaco	90	Not limited		Not limited		Somewhat limited	
						Slope	0.37
						Depth to saturated zone	0.19

Table 10.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails: Rating class and limiting features	Value	Off-road motorcycle trails: Rating class and limiting features	Value	Golf fairways: Rating class and limiting features	Value
5B:							
Craigsville	90	Somewhat limited		Somewhat limited		Very limited	
		Flooding	0.40	Flooding	0.40	Flooding	1.00
						Large stones content	0.20
						Droughty	0.13
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
7D:							
Gilpin	80	Very limited		Very limited		Very limited	
		Water erosion	1.00	Water erosion	1.00	Too steep	1.00
		Slope	1.00			Depth to bedrock	0.10
8C:							
Gilpin	55	Very limited		Very limited		Somewhat limited	
		Water erosion	1.00	Water erosion	1.00	Slope	0.16
						Depth to bedrock	0.10
Berks	35	Very limited		Very limited		Somewhat limited	
		Water erosion	1.00	Water erosion	1.00	Slope	0.16
						Depth to bedrock	0.16
						Droughty	0.09
8D:							
Gilpin	55	Very limited		Very limited		Very limited	
		Water erosion	1.00	Water erosion	1.00	Too steep	1.00
		Slope	0.50			Depth to bedrock	0.10
Berks	35	Very limited		Very limited		Very limited	
		Water erosion	1.00	Water erosion	1.00	Too steep	1.00
		Slope	0.50			Depth to bedrock	0.16
						Droughty	0.09
8E:							
Gilpin	55	Very limited		Very limited		Very limited	
		Slope	1.00	Water erosion	1.00	Too steep	1.00
		Water erosion	1.00	Slope	0.22	Depth to bedrock	0.10
Berks	30	Very limited		Very limited		Very limited	
		Slope	1.00	Water erosion	1.00	Too steep	1.00
		Water erosion	1.00	Slope	0.22	Depth to bedrock	0.16
						Droughty	0.09
8F:							
Gilpin	55	Very limited		Very limited		Very limited	
		Slope	1.00	Water erosion	1.00	Too steep	1.00
		Water erosion	1.00	Slope	1.00	Depth to bedrock	0.10
Berks	35	Very limited		Very limited		Very limited	
		Slope	1.00	Water erosion	1.00	Too steep	1.00
		Water erosion	1.00	Slope	1.00	Depth to bedrock	0.16
						Droughty	0.09
9A:							
Grigsby	80	Not limited		Not limited		Somewhat limited	
						Flooding	0.60

Table 10.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails: Rating class and limiting features	Value	Off-road motorcycle trails: Rating class and limiting features	Value	Golf fairways: Rating class and limiting features	Value
10D:							
Highsplint----------	90	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Large stones content	0.63	Too steep	1.00
		Large stones content	0.63			Large stones content	0.01
11E:							
Highsplint----------	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.63	Large stones content	0.63	Large stones content	0.01
Shelocta----------	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.63	Large stones content	0.63	Gravel content	0.32
11F:							
Highsplint----------	55	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.63	Large stones content	0.63	Large stones content	0.01
Shelocta----------	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.63	Large stones content	0.63	Gravel content	0.32
12F:							
Itmann, unstable fill----------	95	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
						Droughty	0.99
						Gravel content	0.01
13D:							
Kaymine, unstable fill----------	90	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
		Slope	1.00			Gravel content	0.99
						Droughty	0.01
14E:							
Kaymine, unstable fill----------	85	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
		Slope	1.00	Slope	1.00	Gravel content	0.99
						Droughty	0.01
Cedarcreek, unstable fill----------	15	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
		Slope	1.00	Slope	1.00	Gravel content	0.97
						Droughty	0.88
15F:							
Kaymine, unstable fill----------	35	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
		Slope	1.00	Slope	1.00	Gravel content	0.99
						Droughty	0.01

Table 10.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails: Rating class and limiting features	Value	Off-road motorcycle trails: Rating class and limiting features	Value	Golf fairways: Rating class and limiting features	Value
15F:							
Cedarcreek, unstable fill	30	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Gravel content	0.97
		Slope	1.00	Slope	1.00	Droughty	0.88
Fiveblock, unstable fill	25	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Droughty	0.99
		Slope	1.00	Slope	1.00	Gravel content	0.94
16C:							
Kaymine, unstable fill	55	Very limited		Very limited		Somewhat limited	
		Large stones content	1.00	Large stones content	1.00	Gravel content	0.99
						Droughty	0.01
						Slope	0.01
Fiveblock, unstable fill	25	Very limited		Very limited		Somewhat limited	
		Large stones content	1.00	Large stones content	1.00	Droughty	0.99
						Gravel content	0.94
						Large stones content	0.46
Cedarcreek, unstable fill	20	Very limited		Very limited		Somewhat limited	
		Large stones content	1.00	Large stones content	1.00	Gravel content	0.97
						Droughty	0.88
						Large stones content	0.38
17F:							
Kaymine	55	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Gravel content	0.99
		Slope	1.00	Slope	1.00	Droughty	0.01
Sewell	30	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Droughty	1.00
		Slope	1.00	Slope	1.00	Large stones content	0.26
Rock outcrop	10	Not rated		Not rated		Not rated	
18C:							
Marrowbone	50	Not limited		Not limited		Somewhat limited	
						Droughty	0.75
						Slope	0.63
						Depth to bedrock	0.20
Gilpin	45	Very limited		Very limited		Somewhat limited	
		Water erosion	1.00	Water erosion	1.00	Slope	0.63
						Depth to bedrock	0.10

Table 10.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails: Rating class and limiting features	Value	Off-road motorcycle trails: Rating class and limiting features	Value	Golf fairways: Rating class and limiting features	Value
18D:							
Marrowbone----------	50	Somewhat limited		Not limited		Very limited	
		Slope	0.50			Too steep	1.00
						Droughty	0.75
						Depth to bedrock	0.20
Gilpin----------	45	Very limited		Very limited		Very limited	
		Water erosion	1.00	Water erosion	1.00	Too steep	1.00
		Slope	0.50			Depth to bedrock	0.10
18E:							
Marrowbone----------	60	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Slope	0.22	Too steep	1.00
						Droughty	0.75
						Depth to bedrock	0.20
Gilpin----------	35	Very limited		Very limited		Very limited	
		Slope	1.00	Water erosion	1.00	Too steep	1.00
		Water erosion	1.00	Slope	0.22	Depth to bedrock	0.10
18F:							
Marrowbone----------	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
						Droughty	0.75
						Depth to bedrock	0.20
Gilpin----------	15	Very limited		Very limited		Very limited	
		Slope	1.00	Water erosion	1.00	Too steep	1.00
		Water erosion	1.00	Slope	1.00	Depth to bedrock	0.10
19F:							
Matewan----------	55	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Large stones content	0.54
		Slope	1.00	Slope	1.00		
						Droughty	0.41
Gilpin----------	30	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Depth to bedrock	0.10
		Slope	1.00	Water erosion	1.00		
		Water erosion	1.00	Slope	1.00		
Rock outcrop--------	10	Not rated		Not rated		Not rated	
20A:							
Philo----------	95	Somewhat limited		Somewhat limited		Somewhat limited	
		Depth to saturated zone	0.22	Depth to saturated zone	0.22	Depth to saturated zone	0.60
		Too sandy	0.01	Too sandy	0.01	Flooding	0.60
21F:							
Ramsey----------	55	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
						Depth to bedrock	1.00
						Droughty	1.00

Table 10.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails: Rating class and limiting features	Value	Off-road motorcycle trails: Rating class and limiting features	Value	Golf fairways: Rating class and limiting features	Value
21F:							
Alticrest	20	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
						Depth to bedrock	0.46
						Droughty	0.08
Rock outcrop	15	Not rated		Not rated		Not rated	
22E:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Droughty	1.00
		Slope	1.00	Slope	1.00	Large stones content	0.26
22F:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Droughty	1.00
		Slope	1.00	Slope	1.00	Large stones content	0.26
23F:							
Shelocta	70	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.31	Large stones content	0.31	Gravel content	0.32
Cedarcreek, unstable fill	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.31	Large stones content	0.31	Gravel content	0.97
						Droughty	0.88
24E:							
Shelocta	65	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.31	Large stones content	0.31	Gravel content	0.32
Gilpin	30	Very limited		Very limited		Very limited	
		Slope	1.00	Water erosion	1.00	Too steep	1.00
		Water erosion	1.00	Slope	1.00	Depth to bedrock	0.10
		Large stones content	0.31	Large stones content	0.31		
24F:							
Shelocta	60	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.31	Large stones content	0.31	Gravel content	0.32
Gilpin	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Water erosion	1.00	Water erosion	1.00	Depth to bedrock	0.10
		Large stones content	0.31	Large stones content	0.31		

Table 10.—Recreational Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Paths and trails: Rating class and limiting features	Value	Off-road motorcycle trails: Rating class and limiting features	Value	Golf fairways: Rating class and limiting features	Value
25F:							
Shelocta	55	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.31	Large stones content	0.31	Gravel content	0.32
Kaymine, unstable fill	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Too steep	1.00
		Large stones content	0.31	Large stones content	0.31	Gravel content	0.99
						Droughty	0.01
26F:							
Stonecoal, unstable fill	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Droughty	1.00
		Large stones content	0.02	Large stones content	0.02	Gravel content	1.00
						Too steep	1.00
27:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	
29D:							
Varilla	80	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Large stones content	0.05
		Slope	1.00				
30D:							
Varilla	75	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Large stones content	0.05
		Slope	1.00				
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Very limited		Very limited		Very limited	
		Large stones content	1.00	Large stones content	1.00	Too steep	1.00
						Large stones content	0.05
		Slope	1.00	Slope	1.00		
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 11.—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	Pct. of map unit	Dwellings without basements: Rating class and limiting features	Value	Dwellings with basements: Rating class and limiting features	Value	Small commercial buildings: Rating class and limiting features	Value
1D:							
Alticrest	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
1E:							
Alticrest	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
2C:							
Cedarcreek	35	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.01	Slope	0.01	Slope	1.00
Sewell	30	Somewhat limited		Somewhat limited		Very limited	
		Large stones content	0.10	Large stones content	0.10	Slope	1.00
		Slope	0.01	Slope	0.01	Large stones content	0.10
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
3F:							
Cloverlick	45	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
4C:							
Cotaco	90	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.39	Depth to saturated zone	1.00	Slope	1.00
		Slope	0.37	Slope	0.37	Depth to saturated zone	0.39
5B:							
Craigsville	90	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Large stones content	0.61	Large stones content	0.61	Large stones content	0.61
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	

Table 11.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements: Rating class and limiting features	Value	Dwellings with basements: Rating class and limiting features	Value	Small commercial buildings: Rating class and limiting features	Value
7D:							
Gilpin	80	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.01	Depth to hard bedrock	1.00	Depth to hard bedrock	0.01
				Depth to soft bedrock	0.10		
8C:							
Gilpin	55	Somewhat limited		Very limited		Very limited	
		Slope	0.16	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.01	Slope	0.16	Depth to hard bedrock	0.01
				Depth to soft bedrock	0.10		
Berks	35	Somewhat limited		Very limited		Very limited	
		Slope	0.16	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Slope	0.16	Depth to hard bedrock	0.06
				Depth to soft bedrock	0.15		
8D:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.01	Depth to hard bedrock	1.00	Depth to hard bedrock	0.01
				Depth to soft bedrock	0.10		
Berks	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Depth to hard bedrock	0.06
				Depth to soft bedrock	0.15		
8E:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.01	Depth to hard bedrock	1.00	Depth to hard bedrock	0.01
				Depth to soft bedrock	0.10		
Berks	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Depth to hard bedrock	0.06
				Depth to soft bedrock	0.15		
8F:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.01	Depth to hard bedrock	1.00	Depth to hard bedrock	0.01
				Depth to soft bedrock	0.10		

Table 11.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements: Rating class and limiting features	Value	Dwellings with basements: Rating class and limiting features	Value	Small commercial buildings: Rating class and limiting features	Value
8F:							
Berks	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Depth to hard bedrock	1.00	Depth to hard bedrock	0.06
				Depth to soft bedrock	0.15		
9A:							
Grigsby	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
				Depth to saturated zone	0.18		
10D:							
Highsplint	90	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.01	Large stones content	0.01	Large stones content	0.01
11E:							
Highsplint	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.01	Large stones content	0.01	Large stones content	0.01
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
11F:							
Highsplint	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.01	Large stones content	0.01	Large stones content	0.01
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
12F:							
Itmann, unstable fill	95	Very limited		Very limited		Very limited	
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Too steep	1.00	Too steep	1.00	Slope	1.00
13D:							
Kaymine, unstable fill	90	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Large stones content	0.03	Large stones content	0.03	Large stones content	0.03
14E:							
Kaymine, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Large stones content	0.03	Large stones content	0.03	Large stones content	0.03

Table 11.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements: Rating class and limiting features	Value	Dwellings with basements: Rating class and limiting features	Value	Small commercial buildings: Rating class and limiting features	Value
14E:							
Cedarcreek, unstable fill	15	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
15F:							
Kaymine, unstable fill	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Large stones content	0.03	Large stones content	0.03	Large stones content	0.03
Cedarcreek, unstable fill	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
Fiveblock, unstable fill	25	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Large stones content	0.05	Large stones content	0.05	Large stones content	0.05
16C:							
Kaymine, unstable fill	55	Very limited		Very limited		Very limited	
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Large stones content	0.03	Large stones content	0.03	Slope	1.00
		Slope	0.01	Slope	0.01	Large stones content	0.03
Fiveblock, unstable fill	25	Very limited		Very limited		Very limited	
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Large stones content	0.05	Large stones content	0.05	Slope	1.00
		Slope	0.01	Slope	0.01	Large stones content	0.05
Cedarcreek, unstable fill	20	Very limited		Very limited		Very limited	
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Slope	0.01	Slope	0.01	Slope	1.00
17F:							
Kaymine	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.03	Large stones content	0.03	Large stones content	0.03
Sewell	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.10	Large stones content	0.10	Large stones content	0.10
Rock outcrop	10	Not rated		Not rated		Not rated	

Table 11.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements: Rating class and limiting features	Value	Dwellings with basements: Rating class and limiting features	Value	Small commercial buildings: Rating class and limiting features	Value
18C:							
Marrowbone	50	Somewhat limited Slope	 0.63	Somewhat limited Depth to hard bedrock Slope Depth to soft bedrock	 0.84 0.63 0.20	Very limited Slope	 1.00
Gilpin	45	Somewhat limited Slope Depth to hard bedrock	 0.63 0.01	Very limited Depth to hard bedrock Slope Depth to soft bedrock	 1.00 0.63 0.10	Very limited Slope Depth to hard bedrock	 1.00 0.01
18D:							
Marrowbone	50	Very limited Too steep	 1.00	Very limited Too steep Depth to hard bedrock Depth to soft bedrock	 1.00 0.84 0.20	Very limited Slope	 1.00
Gilpin	45	Very limited Too steep Depth to hard bedrock	 1.00 0.01	Very limited Too steep Depth to hard bedrock Depth to soft bedrock	 1.00 1.00 0.10	Very limited Slope Depth to hard bedrock	 1.00 0.01
18E:							
Marrowbone	60	Very limited Too steep	 1.00	Very limited Too steep Depth to hard bedrock Depth to soft bedrock	 1.00 0.84 0.20	Very limited Slope	 1.00
Gilpin	35	Very limited Too steep Depth to hard bedrock	 1.00 0.01	Very limited Too steep Depth to hard bedrock Depth to soft bedrock	 1.00 1.00 0.10	Very limited Slope Depth to hard bedrock	 1.00 0.01
18F:							
Marrowbone	75	Very limited Too steep	 1.00	Very limited Too steep Depth to hard bedrock Depth to soft bedrock	 1.00 0.84 0.20	Very limited Slope	 1.00
Gilpin	15	Very limited Too steep Depth to hard bedrock	 1.00 0.01	Very limited Too steep Depth to hard bedrock Depth to soft bedrock	 1.00 1.00 0.10	Very limited Slope Depth to hard bedrock	 1.00 0.01

Table 11.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements: Rating class and limiting features	Value	Dwellings with basements: Rating class and limiting features	Value	Small commercial buildings: Rating class and limiting features	Value
19F:							
Matewan	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.01	Depth to hard bedrock	1.00	Depth to hard bedrock	0.01
Gilpin	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.01	Depth to hard bedrock	1.00	Depth to hard bedrock	0.01
				Depth to soft bedrock	0.10		
Rock outcrop	10	Not rated		Not rated		Not rated	
20A:							
Philo	95	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	0.90	Depth to saturated zone	1.00	Depth to saturated zone	0.90
21F:							
Ramsey	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
Alticrest	20	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
Rock outcrop	15	Not rated		Not rated		Not rated	
22E:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Large stones content	0.10	Large stones content	0.10	Large stones content	0.10
22F:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00
		Large stones content	0.10	Large stones content	0.10	Large stones content	0.10
23F:							
Shelocta	70	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
Cedarcreek, unstable fill	25	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Unstable fill	1.00	Unstable fill	1.00

Table 11.—Building Site Development, Part I—Continued

Map symbol and soil name	Pct. of map unit	Dwellings without basements: Rating class and limiting features	Value	Dwellings with basements: Rating class and limiting features	Value	Small commercial buildings: Rating class and limiting features	Value
30D:							
Varilla	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.35	Large stones content	0.35	Large stones content	0.35
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Slope	1.00
		Large stones content	0.35	Large stones content	0.35	Large stones content	0.35
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 11.—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	Pct. of map unit	Local roads and streets: Rating class and limiting features	Value	Shallow excavations: Rating class and limiting features	Value	Lawns and landscaping: Rating class and limiting features	Value
1D:							
Alticrest	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Depth to hard bedrock	0.46	Too steep	1.00	Depth to bedrock	0.46
				Cutbanks cave	1.00	Droughty	0.08
1E:							
Alticrest	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Depth to hard bedrock	0.46	Too steep	1.00	Depth to bedrock	0.46
				Cutbanks cave	1.00	Droughty	0.08
2C:							
Cedarcreek	35	Somewhat limited		Somewhat limited		Somewhat limited	
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	0.97
		Slope	0.01	Slope	0.01	Droughty	0.88
						Large stones content	0.38
Sewell	30	Somewhat limited		Somewhat limited		Very limited	
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
		Large stones content	0.10	Large stones content	0.10	Large stones content	0.26
		Slope	0.01	Slope	0.01	Gravel content	0.08
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Cutbanks cave	1.00	Gravel content	0.08
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Cutbanks cave	1.00	Gravel content	0.32
3F:							
Cloverlick	45	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Cutbanks cave	1.00	Gravel content	0.08
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Cutbanks cave	1.00	Gravel content	0.32
4C:							
Cotaco	90	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Slope	0.37
		Frost action	0.50	Slope	0.37	Depth to saturated zone	0.19
		Slope	0.37	Cutbanks cave	0.10		

Table 11.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets: Rating class and limiting features	Value	Shallow excavations: Rating class and limiting features	Value	Lawns and landscaping: Rating class and limiting features	Value
5B:							
Craigsville	90	Very limited		Somewhat limited		Very limited	
		Flooding	1.00	Flooding	0.80	Flooding	1.00
		Large stones content	0.61	Large stones content	0.61	Large stones content	0.20
		Frost action	0.50	Cutbanks cave	0.10	Droughty	0.13
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
7D:							
Gilpin	80	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50	Too steep	1.00	Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Cutbanks cave	1.00		
8C:							
Gilpin	55	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Slope	0.16
		Slope	0.16	Cutbanks cave	1.00	Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Slope	0.16		
Berks	35	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to hard bedrock	1.00	Slope	0.16
		Slope	0.16	Slope	0.16	Depth to bedrock	0.16
		Depth to hard bedrock	0.06	Depth to soft bedrock	0.15	Droughty	0.09
8D:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50	Too steep	1.00	Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Cutbanks cave	1.00		
Berks	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50	Too steep	1.00	Depth to bedrock	0.16
		Depth to hard bedrock	0.06	Depth to soft bedrock	0.15	Droughty	0.09
8E:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50	Too steep	1.00	Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Cutbanks cave	1.00		
Berks	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50	Too steep	1.00	Depth to bedrock	0.16
		Depth to hard bedrock	0.06	Depth to soft bedrock	0.15	Droughty	0.09

Table 11.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets: Rating class and limiting features	Value	Shallow excavations: Rating class and limiting features	Value	Lawns and landscaping: Rating class and limiting features	Value
13D:							
Kaymine, unstable fill	90	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Unstable fill	1.00	Cutbanks cave	0.10	Gravel content	0.99
		Frost action	0.50	Large stones content	0.03	Droughty	0.01
14E:							
Kaymine, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Unstable fill	1.00	Cutbanks cave	0.10	Gravel content	0.99
		Frost action	0.50	Large stones content	0.03	Droughty	0.01
Cedarcreek, unstable fill	15	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Unstable fill	1.00	Cutbanks cave	0.10	Gravel content	0.97
		Frost action	0.50			Droughty	0.88
15F:							
Kaymine, unstable fill	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Unstable fill	1.00	Cutbanks cave	0.10	Gravel content	0.99
		Frost action	0.50	Large stones content	0.03	Droughty	0.01
Cedarcreek, unstable fill	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Unstable fill	1.00	Cutbanks cave	0.10	Gravel content	0.97
		Frost action	0.50			Droughty	0.88
Fiveblock, unstable fill	25	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Unstable fill	1.00	Cutbanks cave	0.10	Droughty	0.99
		Frost action	0.50	Large stones content	0.05	Gravel content	0.94
16C:							
Kaymine, unstable fill	55	Very limited		Somewhat limited		Somewhat limited	
		Unstable fill	1.00	Cutbanks cave	0.10	Gravel content	0.99
		Frost action	0.50	Large stones content	0.03	Droughty	0.01
		Large stones content	0.03	Slope	0.01	Slope	0.01
Fiveblock, unstable fill	25	Very limited		Somewhat limited		Somewhat limited	
		Unstable fill	1.00	Cutbanks cave	0.10	Droughty	0.99
		Frost action	0.50	Large stones content	0.05	Gravel content	0.94
		Large stones content	0.05	Slope	0.01	Large stones content	0.46

Table 11.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets: Rating class and limiting features	Value	Shallow excavations: Rating class and limiting features	Value	Lawns and landscaping: Rating class and limiting features	Value
16C:							
Cedarcreek, unstable fill	20	Very limited		Somewhat limited		Somewhat limited	
		Unstable fill	1.00	Cutbanks cave	0.10	Gravel content	0.97
		Frost action	0.50	Slope	0.01	Droughty	0.88
		Slope	0.01			Large stones content	0.38
17F:							
Kaymine	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	0.99
		Large stones content	0.03	Large stones content	0.03	Droughty	0.01
Sewell	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
		Large stones content	0.10	Large stones content	0.10	Large stones content	0.26
Rock outcrop	10	Not rated		Not rated		Not rated	
18C:							
Marrowbone	50	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Cutbanks cave	1.00	Droughty	0.75
				Depth to hard bedrock	0.84	Slope	0.63
				Slope	0.63	Depth to bedrock	0.20
Gilpin	45	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.63	Depth to hard bedrock	1.00	Slope	0.63
		Frost action	0.50	Cutbanks cave	1.00	Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Slope	0.63		
18D:							
Marrowbone	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
				Cutbanks cave	1.00	Droughty	0.75
				Depth to hard bedrock	0.84	Depth to bedrock	0.20
Gilpin	45	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50	Too steep	1.00	Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Cutbanks cave	1.00		
18E:							
Marrowbone	60	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
				Cutbanks cave	1.00	Droughty	0.75
				Depth to hard bedrock	0.84	Depth to bedrock	0.20
Gilpin	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50	Too steep	1.00	Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Cutbanks cave	1.00		

Table 11.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets: Rating class and limiting features	Value	Shallow excavations: Rating class and limiting features	Value	Lawns and landscaping: Rating class and limiting features	Value
18F:							
Marrowbone	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
				Cutbanks cave	1.00	Droughty	0.75
				Depth to hard bedrock	0.84	Depth to bedrock	0.20
Gilpin	15	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50			Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Too steep	1.00		
				Cutbanks cave	1.00		
19F:							
Matewan	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Depth to hard bedrock	0.01	Too steep	1.00	Large stones content	0.54
				Cutbanks cave	1.00	Droughty	0.41
Gilpin	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50			Depth to bedrock	0.10
		Depth to hard bedrock	0.01	Too steep	1.00		
				Cutbanks cave	1.00		
Rock outcrop	10	Not rated		Not rated		Not rated	
20A:							
Philo	95	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.60
		Depth to saturated zone	0.60	Flooding	0.60	Flooding	0.60
		Frost action	0.50	Cutbanks cave	0.10		
21F:							
Ramsey	55	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Too steep	1.00
						Depth to bedrock	1.00
		Too steep	1.00	Too steep	1.00	Droughty	1.00
		Frost action	0.50	Cutbanks cave	0.10		
Alticrest	20	Very limited		Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00	Too steep	1.00
		Frost action	0.50			Depth to bedrock	0.46
		Depth to hard bedrock	0.46	Too steep	1.00	Droughty	0.08
				Cutbanks cave	1.00		
Rock outcrop	15	Not rated		Not rated		Not rated	
22E:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Unstable fill	1.00	Cutbanks cave	0.10	Droughty	1.00
		Frost action	0.50	Large stones content	0.10	Large stones content	0.26

Table 11.—Building Site Development, Part II—Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets: Rating class and limiting features	Value	Shallow excavations: Rating class and limiting features	Value	Lawns and landscaping: Rating class and limiting features	Value
27:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	
29D:							
Varilla	80	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Large stones content	0.35	Large stones content	0.05
		Large stones content	0.35	Cutbanks cave	0.10		
30D:							
Varilla	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Large stones content	0.35	Large stones content	0.05
		Large stones content	0.35	Cutbanks cave	0.10		
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Frost action	0.50	Large stones content	0.35	Large stones content	0.05
		Large stones content	0.35	Cutbanks cave	0.10		
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 12.—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	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
1D:					
Alticrest	85	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Seepage, bottom layer	1.00	Slope	1.00
		Depth to bedrock	1.00	Seepage	1.00
1E:					
Alticrest	85	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Seepage, bottom layer	1.00	Slope	1.00
		Depth to bedrock	1.00	Seepage	1.00
2C:					
Cedarcreek	35	Somewhat limited		Very limited	
		Slow water movement	0.68	Slope	1.00
		Slope	0.01	Seepage	0.32
Sewell	30	Very limited		Very limited	
		Seepage, bottom layer	1.00	Seepage	1.00
		Large stones content	0.10	Slope	1.00
		Slope	0.01	Large stones content	0.58
Rock outcrop	10	Not rated		Not rated	
3E:					
Cloverlick	50	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
Shelocta	40	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.50	Seepage	0.54
3F:					
Cloverlick	45	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
Shelocta	40	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.50	Seepage	0.54

Table 12.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
4C:					
Cotaco	90	Very limited		Very limited	
		Depth to saturated zone	1.00	Slope	1.00
		Slow water movement	0.50	Depth to saturated zone	1.00
		Slope	0.37	Seepage	0.50
5B:					
Craigsville	90	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
		Filtering capacity	1.00	Slope	0.08
6:					
Dumps, mine	60	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
7D:					
Gilpin	80	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Slow water movement	0.50	Slope	1.00
8C:					
Gilpin	55	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to hard bedrock	1.00
		Slow water movement	0.50	Depth to soft bedrock	1.00
		Slope	0.16	Slope	1.00
Berks	35	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to hard bedrock	1.00
		Seepage, bottom layer	1.00	Depth to soft bedrock	1.00
		Slope	0.16	Slope	1.00
8D:					
Gilpin	55	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Slow water movement	0.50	Slope	1.00
Berks	35	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Seepage, bottom layer	1.00	Slope	1.00

Table 12.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
8E:					
Gilpin	55	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Slow water movement	0.50	Slope	1.00
Berks	30	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Seepage, bottom layer	1.00	Slope	1.00
8F:					
Gilpin	55	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Slow water movement	0.50	Slope	1.00
Berks	35	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Seepage, bottom layer	1.00	Slope	1.00
9A:					
Grigsby	80	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
		Depth to saturated zone	0.50		
10D:					
Highsplint	90	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
		Large stones content	0.01	Large stones content	0.17
11E:					
Highsplint	50	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
		Large stones content	0.01	Large stones content	0.17
Shelocta	40	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.50	Seepage	0.54

Table 12.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
11F:					
Highsplint	55	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
		Large stones content	0.01	Large stones content	0.17
Shelocta	40	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.50	Seepage	0.54
12F:					
Itmann, unstable fill	95	Very limited		Very limited	
		Filtering capacity	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Slope	1.00
		Unstable fill	1.00		
13D:					
Kaymine, unstable fill	90	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	0.32
		Slow water movement	0.68		
14E:					
Kaymine, unstable fill	85	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	0.32
		Slow water movement	0.68		
Cedarcreek, unstable fill	15	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	0.32
		Slow water movement	0.68		
15F:					
Kaymine, unstable fill	35	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	0.32
		Slow water movement	0.68		
Cedarcreek, unstable fill	30	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	0.32
		Slow water movement	0.68		

Table 12.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
15F:					
Fiveblock, unstable fill	25	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Large stones content	0.26
16C:					
Kaymine, unstable fill	55	Very limited		Very limited	
		Unstable fill	1.00	Slope	1.00
		Slow water movement	0.68	Seepage	0.32
		Large stones content	0.03		
Fiveblock, unstable fill	25	Very limited		Very limited	
		Unstable fill	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Slope	1.00
		Large stones content	0.05	Large stones content	0.26
Cedarcreek, unstable fill	20	Very limited		Very limited	
		Unstable fill	1.00	Slope	1.00
		Slow water movement	0.68	Seepage	0.32
		Slope	0.01		
17F:					
Kaymine	55	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.68	Seepage	0.32
		Large stones content	0.03		
Sewell	30	Very limited		Very limited	
		Too steep	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Slope	1.00
		Large stones content	0.10	Large stones content	0.58
Rock outcrop	10	Not rated		Not rated	
18C:					
Marrowbone	50	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Seepage, bottom layer	1.00	Slope	1.00
		Slope	0.63	Seepage	1.00

Table 12.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
18C:					
Gilpin	45	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to hard bedrock	1.00
		Slope	0.63		
		Slow water movement	0.50	Depth to soft bedrock	1.00
				Slope	1.00
18D:					
Marrowbone	50	Very limited		Very limited	
		Too steep	1.00	Depth to soft bedrock	1.00
		Depth to bedrock	1.00		
		Seepage, bottom layer	1.00	Slope	1.00
				Seepage	1.00
Gilpin	45	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.50	Depth to soft bedrock	1.00
				Slope	1.00
18E:					
Marrowbone	60	Very limited		Very limited	
		Too steep	1.00	Depth to soft bedrock	1.00
		Depth to bedrock	1.00		
		Seepage, bottom layer	1.00	Slope	1.00
				Seepage	1.00
Gilpin	35	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.50	Depth to soft bedrock	1.00
				Slope	1.00
18F:					
Marrowbone	75	Very limited		Very limited	
		Too steep	1.00	Depth to soft bedrock	1.00
		Depth to bedrock	1.00		
		Seepage, bottom layer	1.00	Slope	1.00
				Seepage	1.00
Gilpin	15	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.50	Depth to soft bedrock	1.00
				Slope	1.00
19F:					
Matewan	55	Very limited		Very limited	
		Filtering capacity	1.00	Depth to hard bedrock	1.00
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00

Table 12.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
19F:					
Gilpin	30	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00	Depth to soft bedrock	1.00
		Slow water movement	0.50	Slope	1.00
Rock outcrop	10	Not rated		Not rated	
20A:					
Philo	95	Very limited		Very limited	
		Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
21F:					
Ramsey	55	Very limited		Very limited	
		Depth to bedrock	1.00	Depth to hard bedrock	1.00
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
Alticrest	20	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Seepage, bottom layer	1.00	Slope	1.00
		Depth to bedrock	1.00	Seepage	1.00
Rock outcrop	15	Not rated		Not rated	
22E:					
Sewell, unstable fill	85	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Large stones content	0.58
22F:					
Sewell, unstable fill	85	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Large stones content	0.58
23F:					
Shelocta	70	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.50	Seepage	0.54
Cedarcreek, unstable fill	25	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	0.32
		Slow water movement	0.68		

Table 12.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
24E:					
Shelocta	65	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.50	Seepage	0.54
Gilpin	30	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.50	Depth to soft bedrock	1.00
				Slope	1.00
24F:					
Shelocta	60	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.50	Seepage	0.54
Gilpin	35	Very limited		Very limited	
		Too steep	1.00	Depth to hard bedrock	1.00
		Depth to bedrock	1.00		
		Slow water movement	0.50	Depth to soft bedrock	1.00
				Slope	1.00
25F:					
Shelocta	55	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Slow water movement	0.50	Seepage	0.54
Kaymine, unstable fill	40	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Unstable fill	1.00	Seepage	0.32
		Slow water movement	0.68		
26F:					
Stonecoal, unstable fill	85	Very limited		Very limited	
		Unstable fill	1.00	Seepage	1.00
		Filtering capacity	1.00	Slope	1.00
				Large stones content	0.78
		Too steep	1.00		
27:					
Udorthents	45	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
28:					
Udorthents	45	Not rated		Not rated	
Urban land	35	Not rated		Not rated	

Table 12.—Sanitary Facilities, Part I—Continued

Map symbol and soil name	Pct. of map unit	Septic tank absorption fields: Rating class and limiting features	Value	Sewage lagoons: Rating class and limiting features	Value
29D:					
Varilla	80	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
		Large stones content	0.35		
30D:					
Varilla	75	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
		Large stones content	0.35		
Rock outcrop	10	Not rated		Not rated	
30E:					
Varilla	75	Very limited		Very limited	
		Too steep	1.00	Slope	1.00
		Seepage, bottom layer	1.00	Seepage	1.00
		Large stones content	0.35		
Rock outcrop	10	Not rated		Not rated	
DAM:					
Dam	100	Not rated		Not rated	
W:					
Water	100	Not rated		Not rated	

Table 12.—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	Pct. of map unit	Trench sanitary landfill: Rating class and limiting features	Value	Area sanitary landfill: Rating class and limiting features	Value	Daily cover for landfill: Rating class and limiting features	Value
1D:							
Alticrest	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Seepage	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Depth to bedrock	1.00	Seepage	0.50
1E:							
Alticrest	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Seepage	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Depth to bedrock	1.00	Seepage	0.50
2C:							
Cedarcreek	35	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.01	Slope	0.01	Gravel content	1.00
						Slope	0.01
Sewell	30	Very limited		Very limited		Somewhat limited	
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.92
		Large stones content	0.14	Slope	0.01	Large stones content	0.14
		Slope	0.01			Seepage	0.09
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.87
						Seepage	0.51
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	0.40
3F:							
Cloverlick	45	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.87
						Seepage	0.51
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	0.40
4C:							
Cotaco	90	Very limited		Very limited		Somewhat limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.86
		Too clayey	0.50	Slope	0.37	Too clayey	0.50
		Slope	0.37			Slope	0.37

Table 12.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill: Rating class and limiting features	Value	Area sanitary landfill: Rating class and limiting features	Value	Daily cover for landfill: Rating class and limiting features	Value
5B:							
Craigsville	90	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Large stones content	0.94
		Large stones content	0.94				
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
7D:							
Gilpin	80	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39
8C:							
Gilpin	55	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	0.16	Slope	0.16	Gravel content	0.39
						Slope	0.16
Berks	35	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.93
				Slope	0.16	Seepage	0.74
		Slope	0.16				
8D:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39
Berks	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.93
8E:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39
Berks	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.93
8F:							
Gilpin	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39

Table 12.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill: Rating class and limiting features	Value	Area sanitary landfill: Rating class and limiting features	Value	Daily cover for landfill: Rating class and limiting features	Value
8F:							
Berks	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.93
9A:							
Grigsby	80	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Flooding	1.00	Seepage	0.88
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Too sandy	0.50
		Seepage, bottom layer	1.00	Seepage	1.00		
10D:							
Highsplint	90	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Seepage	0.51
		Large stones content	0.01			Gravel content	0.27
11E:							
Highsplint	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Seepage	0.51
		Large stones content	0.01			Gravel content	0.27
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	0.40
11F:							
Highsplint	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Seepage	0.51
		Large stones content	0.01			Gravel content	0.27
Shelocta	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	0.40
12F:							
Itmann, unstable fill	95	Very limited		Very limited		Very limited	
		Seepage, bottom layer	1.00	Seepage	1.00	Seepage	1.00
				Too steep	1.00	Gravel content	1.00
		Too steep	1.00			Too steep	1.00
13D:							
Kaymine, unstable fill	90	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Large stones content	0.39			Large stones content	0.39
						Gravel content	0.16

Table 12.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill: Rating class and limiting features	Value	Area sanitary landfill: Rating class and limiting features	Value	Daily cover for landfill: Rating class and limiting features	Value
14E:							
Kaymine, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Large stones content	0.39			Large stones content	0.39
						Gravel content	0.16
Cedarcreek, unstable fill	15	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	1.00
15F:							
Kaymine, unstable fill	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Large stones content	0.39			Large stones content	0.39
						Gravel content	0.16
Cedarcreek, unstable fill	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	1.00
Fiveblock, unstable fill	25	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.89
		Large stones content	0.11			Large stones content	0.11
16C:							
Kaymine, unstable fill	55	Somewhat limited		Somewhat limited		Somewhat limited	
		Large stones content	0.39	Slope	0.01	Large stones content	0.39
		Slope	0.01			Gravel content	0.16
						Slope	0.01
Fiveblock, unstable fill	25	Very limited		Very limited		Somewhat limited	
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.89
				Slope	0.01	Large stones content	0.11
		Large stones content	0.11			Seepage	0.09
		Slope	0.01				
Cedarcreek, unstable fill	20	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.01	Slope	0.01	Gravel content	1.00
						Slope	0.01
17F:							
Kaymine	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Large stones content	0.39			Large stones content	0.39
						Gravel content	0.16

Table 12.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill: Rating class and limiting features	Value	Area sanitary landfill: Rating class and limiting features	Value	Daily cover for landfill: Rating class and limiting features	Value
17F:							
Sewell	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.92
		Large stones content	0.14			Large stones content	0.14
Rock outcrop	10	Not rated		Not rated		Not rated	
18C:							
Marrowbone	50	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Slope	0.63
		Slope	0.63	Slope	0.63	Seepage	0.15
Gilpin	45	Very limited		Very limited		Very limited	
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Slope	0.63	Slope	0.63	Slope	0.63
						Gravel content	0.39
18D:							
Marrowbone	50	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Seepage	0.51
Gilpin	45	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39
18E:							
Marrowbone	60	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Seepage	0.51
Gilpin	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39
18F:							
Marrowbone	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Seepage	0.51
Gilpin	15	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39

Table 12.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill: Rating class and limiting features	Value	Area sanitary landfill: Rating class and limiting features	Value	Daily cover for landfill: Rating class and limiting features	Value
19F:							
Matewan	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Seepage	1.00	Seepage	1.00
		Seepage, bottom layer	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
Gilpin	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39
Rock outcrop	10	Not rated		Not rated		Not rated	
20A:							
Philo	95	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Flooding	1.00	Depth to saturated zone	0.99
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Seepage	0.50
		Seepage, bottom layer	1.00	Seepage	1.00		
21F:							
Ramsey	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Depth to bedrock	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Too steep	1.00
		Seepage, bottom layer	1.00			Seepage	1.00
Alticrest	20	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Seepage	1.00	Depth to bedrock	1.00
		Seepage, bottom layer	1.00	Depth to bedrock	1.00	Seepage	0.50
Rock outcrop	15	Not rated		Not rated		Not rated	
22E:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.92
		Large stones content	0.14			Large stones content	0.14
22F:							
Sewell, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Gravel content	0.92
		Large stones content	0.14			Large stones content	0.14
23F:							
Shelocta	70	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	0.40

Table 12.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill: Rating class and limiting features	Value	Area sanitary landfill: Rating class and limiting features	Value	Daily cover for landfill: Rating class and limiting features	Value
23F:							
Cedarcreek, unstable fill	25	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	1.00
24E:							
Shelocta	65	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	0.40
Gilpin	30	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39
24F:							
Shelocta	60	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	0.40
Gilpin	35	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
						Gravel content	0.39
25F:							
Shelocta	55	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
						Gravel content	0.40
Kaymine, unstable fill	40	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Large stones content	0.39			Large stones content	0.39
						Gravel content	0.16
26F:							
Stonecoal, unstable fill	85	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Gravel content	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Too steep	1.00
		Too sandy	0.50			Seepage	1.00
27:							
Udorthents	45	Not rated		Nor rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	

Table 12.—Sanitary Facilities, Part II—Continued

Map symbol and soil name	Pct. of map unit	Trench sanitary landfill: Rating class and limiting features	Value	Area sanitary landfill: Rating class and limiting features	Value	Daily cover for landfill: Rating class and limiting features	Value
29D:							
Varilla	80	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Large stones content	0.90
		Large stones content	0.90			Seepage	0.50
30D:							
Varilla	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Large stones content	0.90
		Large stones content	0.90			Seepage	0.50
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Very limited		Very limited		Very limited	
		Too steep	1.00	Too steep	1.00	Too steep	1.00
		Seepage, bottom layer	1.00	Seepage	1.00	Large stones content	0.90
		Large stones content	0.90			Seepage	0.50
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 13.—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	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
1D:					
Alticrest	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.07
1E:					
Alticrest	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.07
2C:					
Cedarcreek	35	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
Sewell	30	Fair		Fair	
		Thickest layer	0.00	Bottom layer	0.04
		Bottom layer	0.12	Thickest layer	0.04
Rock outcrop	10	Not rated		Not rated	
3E:					
Cloverlick	50	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
Shelocta	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
3F:					
Cloverlick	45	Poor		Fair	
		Thickest layer	0.00	Thickest layer	0.00
		Bottom layer	0.00	Bottom layer	0.03
Shelocta	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
4C:					
Cotaco	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
5B:					
Craigsville	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 13.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel: Rating class	Value	Potential source of sand: Rating class	Value
6:					
Dumps, mine	60	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
7D:					
Gilpin	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
8C:					
Gilpin	55	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Berks	35	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.25	Thickest layer	0.00
8D:					
Gilpin	55	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Berks	35	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.25	Thickest layer	0.00
8E:					
Gilpin	55	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Berks	30	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.25	Thickest layer	0.00
8F:					
Gilpin	55	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Berks	35	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.25	Thickest layer	0.00
9A:					
Grigsby	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.08
		Thickest layer	0.00	Bottom layer	0.86
10D:					
Highsplint	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
11E:					
Highsplint	50	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 13.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel: Rating class	Value	Potential source of sand: Rating class	Value
11E:					
Shelocta	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
11F:					
Highsplint	55	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Shelocta	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
12F:					
Itmann, unstable fill	95	Fair		Fair	
		Thickest layer	0.00	Bottom layer	0.03
		Bottom layer	0.12	Thickest layer	0.03
13D:					
Kaymine, unstable fill	90	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
14E:					
Kaymine, unstable fill	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Cedarcreek, unstable fill	15	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
15F:					
Kaymine, unstable fill	35	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Cedarcreek, unstable fill	30	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
Fiveblock, unstable fill	25	Fair		Fair	
		Thickest layer	0.00	Bottom layer	0.04
		Bottom layer	0.12	Thickest layer	0.04
16C:					
Kaymine, unstable fill	55	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table 13.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel: Rating class	Value	Potential source of sand: Rating class	Value
16C:					
Fiveblock, unstable fill	25	Fair		Fair	
		Thickest layer	0.00	Bottom layer	0.04
		Bottom layer	0.12	Thickest layer	0.04
Cedarcreek, unstable fill	20	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
17F:					
Kaymine	55	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Sewell	30	Fair		Fair	
		Thickest layer	0.00	Bottom layer	0.04
		Bottom layer	0.12	Thickest layer	0.04
Rock outcrop	10	Not rated		Not rated	
18C:					
Marrowbone	50	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.07
Gilpin	45	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
18D:					
Marrowbone	50	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.07
Gilpin	45	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
18E:					
Marrowbone	60	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.07
Gilpin	35	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
18F:					
Marrowbone	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.07
Gilpin	15	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

Table 13.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel: Rating class	Value	Potential source of sand: Rating class	Value
19F:					
Matewan	55	Poor		Fair	
		Thickest layer	0.00	Bottom layer	0.03
		Bottom layer	0.00	Thickest layer	0.03
Gilpin	30	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Rock outcrop	10	Not rated		Not rated	
20A:					
Philo	95	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.02
		Thickest layer	0.00	Thickest layer	0.02
21F:					
Ramsey	55	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
Alticrest	20	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.07
Rock outcrop	15	Not rated		Not rated	
22E:					
Sewell, unstable fill	85	Fair		Fair	
		Thickest layer	0.00	Bottom layer	0.04
		Bottom layer	0.12	Thickest layer	0.04
22F:					
Sewell, unstable fill	85	Fair		Fair	
		Thickest layer	0.00	Bottom layer	0.04
		Bottom layer	0.12	Thickest layer	0.04
23F:					
Shelocta	70	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Cedarcreek, unstable fill	25	Fair		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.12	Thickest layer	0.00
24E:					
Shelocta	65	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Gilpin	30	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00

Table 13.—Construction Materials, Part I—Continued

Map symbol and soil name	Pct. of map unit	Potential source of gravel: Rating class	Value	Potential source of sand: Rating class	Value
24F:					
Shelocta	60	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Gilpin	35	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
25F:					
Shelocta	55	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Kaymine, unstable fill	40	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
26F:					
Stonecoal, unstable fill	85	Fair		Fair	
		Bottom layer	0.14	Thickest layer	0.04
		Thickest layer	0.14	Bottom layer	0.10
27:					
Udorthents	45	Not rated		Not rated	
Urban land	30	Not rated		Not rated	
28:					
Udorthents	45	Not rated		Not rated	
Urban land	35	Not rated		Not rated	
29D:					
Varilla	80	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
30D:					
Varilla	75	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Rock outcrop	10	Not rated		Not rated	
30E:					
Varilla	75	Poor		Poor	
		Thickest layer	0.00	Bottom layer	0.00
		Bottom layer	0.00	Thickest layer	0.00
Rock outcrop	10	Not rated		Not rated	
DAM:					
Dam	100	Not rated		Not rated	
W:					
Water	100	Not rated		Not rated	

Table 13.—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	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
1D:							
Alticrest	85	Fair		Poor		Poor	
		Droughty	0.09	Depth to bedrock	0.00	Slope	0.00
		Organic matter content low	0.12	Slope	0.00	Depth to bedrock	0.54
		Too acid	0.50			Too acid	0.95
1E:							
Alticrest	85	Fair		Poor		Poor	
		Droughty	0.09	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Depth to bedrock	0.54
		Too acid	0.50			Too acid	0.95
2C:							
Cedarcreek	35	Fair		Fair		Poor	
		Organic matter content low	0.01	Stone content	0.68	Rock fragments	0.00
		Droughty	0.14			Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Too acid	0.68
Sewell	30	Poor		Poor		Poor	
		Stone content	0.00	Stone content	0.00	Rock fragments	0.00
		Droughty	0.00			Hard to reclaim (rock fragments)	0.00
		Organic matter content low	0.01			Too acid	0.98
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Fair		Poor		Poor	
		Too acid	0.12	Slope	0.00	Slope	0.00
		Organic matter content low	0.12			Hard to reclaim (rock fragments)	0.00
		Water erosion	0.99			Rock fragments	0.00
Shelocta	40	Fair		Poor		Poor	
		Organic matter content low	0.02	Slope	0.00	Slope	0.00
		Too acid	0.32			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
3F:							
Cloverlick	45	Fair		Poor		Poor	
		Too acid	0.12	Slope	0.00	Slope	0.00
		Organic matter content low	0.12			Hard to reclaim (rock fragments)	0.00
		Water erosion	0.99			Rock fragments	0.00
Shelocta	40	Fair		Poor		Poor	
		Organic matter content low	0.02	Slope	0.00	Slope	0.00
		Too acid	0.32			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00

Table 13.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
4C:							
Cotaco	90	Fair		Poor		Fair	
		Organic matter content low	0.12	Low strength	0.00	Wetness depth	0.53
				Wetness depth	0.53	Slope	0.63
		Too acid	0.50			Too acid	0.95
5B:							
Craigsville	90	Fair		Poor		Poor	
		Cobble content	0.06	Cobble content	0.00	Hard to reclaim (rock fragments)	0.00
		Droughty	0.77				
		Too acid	0.84			Rock fragments	0.00
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
7D:							
Gilpin	80	Poor		Poor		Poor	
		Wind erosion	0.00	Depth to bedrock	0.00	Slope	0.00
		Organic matter content low	0.12	Slope	0.00	Rock fragments	0.00
						Depth to bedrock	0.90
		Too acid	0.50				
8C:							
Gilpin	55	Poor		Poor		Poor	
		Wind erosion	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Organic matter content low	0.12			Slope	0.84
						Depth to bedrock	0.90
		Too acid	0.50				
Berks	35	Fair		Poor		Poor	
		Droughty	0.08	Depth to bedrock	0.00	Rock fragments	0.00
		Organic matter content low	0.12			Slope	0.84
						Depth to bedrock	0.84
		Too acid	0.50				
8D:							
Gilpin	55	Poor		Poor		Poor	
		Wind erosion	0.00	Depth to bedrock	0.00	Slope	0.00
		Organic matter content low	0.12	Slope	0.50	Rock fragments	0.00
						Depth to bedrock	0.90
		Too acid	0.50				
Berks	35	Fair		Poor		Poor	
		Droughty	0.08	Depth to bedrock	0.00	Slope	0.00
		Organic matter content low	0.12	Slope	0.50	Rock fragments	0.00
						Depth to bedrock	0.84
		Too acid	0.50				
8E:							
Gilpin	55	Poor		Poor		Poor	
		Wind erosion	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
						Depth to bedrock	0.90
		Too acid	0.50				

Table 13.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
8E:							
Berks	30	Fair		Poor		Poor	
		Droughty	0.08	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.84
8F:							
Gilpin	55	Poor		Poor		Poor	
		Wind erosion	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.90
Berks	35	Fair		Poor		Poor	
		Droughty	0.08	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.84
9A:							
Grigsby	80	Fair		Good		Good	
		Organic matter content low	0.02				
		Too acid	0.84				
10D:							
Highsplint	90	Fair		Poor		Poor	
		Too acid	0.16	Slope	0.00	Slope	0.00
		Organic matter content low	0.50	Cobble content	0.79	Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
11E:							
Highsplint	50	Fair		Poor		Poor	
		Too acid	0.16	Slope	0.00	Slope	0.00
		Organic matter content low	0.50	Cobble content	0.79	Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
Shelocta	40	Fair		Poor		Poor	
		Organic matter content low	0.02	Slope	0.00	Slope	0.00
		Too acid	0.32			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
11F:							
Highsplint	55	Fair		Poor		Poor	
		Too acid	0.16	Slope	0.00	Slope	0.00
		Organic matter content low	0.50	Cobble content	0.79	Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
Shelocta	40	Fair		Poor		Poor	
		Organic matter content low	0.02	Slope	0.00	Slope	0.00
		Too acid	0.32			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00

Table 13.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
12F:							
Itmann, unstable fill	95	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Hard to reclaim (rock fragments)	0.00
		Organic matter content low	0.00			Rock fragments	0.00
		Too acid	0.50			Slope	0.00
13D:							
Kaymine, unstable fill	90	Fair		Poor		Poor	
		Organic matter content low	0.01	Slope	0.00	Slope	0.00
		Stone content	0.37	Cobble content	0.73	Rock fragments	0.00
				Stone content	0.99	Hard to reclaim (rock fragments)	0.00
14E:							
Kaymine, unstable fill	85	Fair		Poor		Poor	
		Organic matter content low	0.01	Slope	0.00	Slope	0.00
		Stone content	0.37	Cobble content	0.73	Rock fragments	0.00
				Stone content	0.99	Hard to reclaim (rock fragments)	0.00
Cedarcreek, unstable fill	15	Fair		Poor		Poor	
		Organic matter content low	0.01	Slope	0.00	Slope	0.00
		Droughty	0.14	Stone content	0.68	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
15F:							
Kaymine, unstable fill	35	Fair		Poor		Poor	
		Organic matter content low	0.01	Slope	0.00	Slope	0.00
		Stone content	0.37	Cobble content	0.73	Rock fragments	0.00
				Stone content	0.99	Hard to reclaim (rock fragments)	0.00
Cedarcreek, unstable fill	30	Fair		Poor		Poor	
		Organic matter content low	0.01	Slope	0.00	Slope	0.00
		Droughty	0.14	Stone content	0.68	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
Fiveblock, unstable fill	25	Poor		Poor		Poor	
		Stone content	0.00	Slope	0.00	Slope	0.00
		Droughty	0.00	Stone content	0.00	Rock fragments	0.00
		Organic matter content low	0.01			Hard to reclaim (rock fragments)	0.00
16C:							
Kaymine, unstable fill	55	Fair		Fair		Poor	
		Organic matter content low	0.01	Cobble content	0.73	Rock fragments	0.00
		Stone content	0.37	Stone content	0.99	Hard to reclaim (rock fragments)	0.00

Table 13.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
16C:							
Fiveblock, unstable fill	25	Poor		Poor		Poor	
		Stone content	0.00	Stone content	0.00	Rock fragments	0.00
		Droughty	0.00			Hard to reclaim (rock fragments)	0.00
		Organic matter content low	0.01				
Cedarcreek, unstable fill	20	Fair		Fair		Poor	
		Organic matter content low	0.01	Stone content	0.68	Rock fragments	0.00
		Droughty	0.14			Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Too acid	0.68
17F:							
Kaymine	55	Fair		Poor		Poor	
		Organic matter content low	0.01	Slope	0.00	Rock fragments	0.00
		Stone content	0.37	Cobble content	0.73	Hard to reclaim (rock fragments)	0.00
				Stone content	0.99	Slope	0.00
Sewell	30	Poor		Poor		Poor	
		Stone content	0.00	Stone content	0.00	Rock fragments	0.00
		Droughty	0.00	Slope	0.00	Hard to reclaim (rock fragments)	0.00
		Organic matter content low	0.01			Slope	0.00
Rock outcrop	10	Not rated		Not rated		Not rated	
18C:							
Marrowbone	50	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Organic matter content low	0.12			Slope	0.37
		Too acid	0.50			Depth to bedrock	0.79
Gilpin	45	Poor		Poor		Poor	
		Wind erosion	0.00	Depth to bedrock	0.00	Rock fragments	0.00
		Organic matter content low	0.12			Slope	0.37
		Too acid	0.50			Depth to bedrock	0.90
18D:							
Marrowbone	50	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Slope	0.00
		Organic matter content low	0.12	Slope	0.50	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.79
Gilpin	45	Poor		Poor		Poor	
		Wind erosion	0.00	Depth to bedrock	0.00	Slope	0.00
		Organic matter content low	0.12	Slope	0.50	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.90

Table 13.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
18E:							
Marrowbone	60	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.79
Gilpin	35	Poor		Poor		Poor	
		Wind erosion	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.90
18F:							
Marrowbone	75	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.79
Gilpin	15	Poor		Poor		Poor	
		Wind erosion	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.90
19F:							
Matewan	55	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.02	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50	Stone content	0.99	Too acid	0.95
Gilpin	30	Poor		Poor		Poor	
		Wind erosion	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.90
Rock outcrop	10	Not rated		Not rated		Not rated	
20A:							
Philo	95	Fair		Fair		Fair	
		Too acid	0.50	Wetness depth	0.22	Wetness depth	0.22
		Organic matter content low	0.50			Too sandy	0.98
		Too sandy	0.98				
21F:							
Ramsey	55	Poor		Poor		Poor	
		Droughty	0.00	Depth to bedrock	0.00	Slope	0.00
		Depth to bedrock	0.00	Slope	0.00	Depth to bedrock	0.00
		Organic matter content low	0.12			Too acid	0.88
Alticrest	20	Fair		Poor		Poor	
		Droughty	0.09	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Depth to bedrock	0.54
		Too acid	0.50			Too acid	0.95

Table 13.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
21F:							
Rock outcrop--------	15	Not rated		Not rated		Not rated	
22E:							
Sewell, unstable fill----------	85	Poor		Poor		Poor	
		Stone content	0.00	Slope	0.00	Slope	0.00
		Droughty	0.00	Stone content	0.00	Rock fragments	0.00
		Organic matter content low	0.01			Hard to reclaim (rock fragments)	0.00
22F:							
Sewell, unstable fill----------	85	Poor		Poor		Poor	
		Stone content	0.00	Slope	0.00	Slope	0.00
		Droughty	0.00	Stone content	0.00	Rock fragments	0.00
		Organic matter content low	0.01			Hard to reclaim (rock fragments)	0.00
23F:							
Shelocta----------	70	Fair		Poor		Poor	
		Organic matter content low	0.02	Slope	0.00	Slope	0.00
		Too acid	0.32			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
Cedarcreek, unstable fill----------	25	Fair		Poor		Poor	
		Organic matter content low	0.01	Slope	0.00	Slope	0.00
		Droughty	0.14	Stone content	0.68	Rock fragments	0.00
		Too acid	0.50			Hard to reclaim (rock fragments)	0.00
24E:							
Shelocta----------	65	Fair		Poor		Poor	
		Organic matter content low	0.02	Slope	0.00	Slope	0.00
		Too acid	0.32			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
Gilpin----------	30	Poor		Poor		Poor	
		Wind erosion	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.90
24F:							
Shelocta----------	60	Fair		Poor		Poor	
		Organic matter content low	0.02	Slope	0.00	Slope	0.00
		Too acid	0.32			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
Gilpin----------	35	Poor		Poor		Poor	
		Wind erosion	0.00	Slope	0.00	Slope	0.00
		Organic matter content low	0.12	Depth to bedrock	0.00	Rock fragments	0.00
		Too acid	0.50			Depth to bedrock	0.90

Table 13.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
25F:							
Shelocta	55	Fair		Poor		Poor	
		Organic matter content low	0.02	Slope	0.00	Slope	0.00
		Too acid	0.32			Hard to reclaim (rock fragments)	0.00
						Rock fragments	0.00
Kaymine, unstable fill	40	Fair		Poor		Poor	
		Organic matter content low	0.01	Slope	0.00	Slope	0.00
		Stone content	0.37	Cobble content	0.73	Rock fragments	0.00
				Stone content	0.99	Hard to reclaim (rock fragments)	0.00
26F:							
Stonecoal, unstable fill	85	Poor		Poor		Poor	
		Droughty	0.00	Slope	0.00	Rock fragments	0.00
		Organic matter content low	0.12	Cobble content	0.13	Hard to reclaim (rock fragments)	0.00
		Cobble content	0.92			Slope	0.00
27:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	
29D:							
Varilla	80	Fair		Poor		Poor	
		Organic matter content low	0.10	Slope	0.00	Slope	0.00
		Cobble content	0.16	Cobble content	0.00	Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Rock fragments	0.00
30D:							
Varilla	75	Fair		Poor		Poor	
		Organic matter content low	0.10	Slope	0.00	Slope	0.00
		Cobble content	0.16	Cobble content	0.00	Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Rock fragments	0.00
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Fair		Poor		Poor	
		Organic matter content low	0.10	Slope	0.00	Slope	0.00
		Cobble content	0.16	Cobble content	0.00	Hard to reclaim (rock fragments)	0.00
		Too acid	0.50			Rock fragments	0.00
Rock outcrop	10	Not rated		Not rated		Not rated	

Table 13.—Construction Materials, Part II—Continued

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material: Rating class and limiting features	Value	Potential source of roadfill: Rating class and limiting features	Value	Potential source of topsoil: Rating class and limiting features	Value
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 14.—Water Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table)

Map symbol and soil name	Pct. of map unit	Pond reservoir areas: Rating class and limiting features	Value	Embankments, dikes, and levees: Rating class and limiting features	Value	Aquifer-fed excavated ponds: Rating class and limiting features	Value
1D:							
Alticrest	85	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.86	Depth to water	1.00
		Slope	1.00	Seepage	0.07		
		Depth to bedrock	0.86				
1E:							
Alticrest	85	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.86	Depth to water	1.00
		Slope	1.00	Seepage	0.07		
		Depth to bedrock	0.86				
2C:							
Cedarcreek	35	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Seepage	0.12	Depth to water	1.00
		Seepage	0.57				
Sewell	30	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.12	Depth to water	1.00
		Slope	1.00	Large stones content	0.10		
Rock outcrop	10	Not rated		Not rated		Not rated	
3E:							
Cloverlick	50	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.03	Depth to water	1.00
		Slope	1.00				
Shelocta	40	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	0.70				
3F:							
Cloverlick	45	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.03	Depth to water	1.00
		Slope	1.00				
Shelocta	40	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	0.70				
4C:							
Cotaco	90	Very limited		Somewhat limited		Somewhat limited	
		Slope	1.00	Piping	0.99	Slow refill	0.30
		Seepage	0.70	Depth to saturated zone	0.99	Cutbanks cave	0.10
						Depth to saturated zone	0.01
5B:							
Craigsville	90	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Large stones content	0.61	Depth to water	1.00
				Seepage	0.04		

Table 14.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas: Rating class and limiting features	Value	Embankments, dikes, and levees: Rating class and limiting features	Value	Aquifer-fed excavated ponds: Rating class and limiting features	Value
6:							
Dumps, mine	60	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	
7D:							
Gilpin	80	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
8C:							
Gilpin	55	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
Berks	35	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.74	Depth to water	1.00
		Slope	1.00	Seepage	0.25		
		Depth to bedrock	0.66				
8D:							
Gilpin	55	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
Berks	35	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.74	Depth to water	1.00
		Slope	1.00	Seepage	0.25		
		Depth to bedrock	0.66				
8E:							
Gilpin	55	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
Berks	30	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.74	Depth to water	1.00
		Slope	1.00	Seepage	0.25		
		Depth to bedrock	0.66				
8F:							
Gilpin	55	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
Berks	35	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.74	Depth to water	1.00
		Slope	1.00	Seepage	0.25		
		Depth to bedrock	0.66				
9A:							
Grigsby	80	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.86	Depth to water	1.00

Table 14.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas: Rating class and limiting features	Value	Embankments, dikes, and levees: Rating class and limiting features	Value	Aquifer-fed excavated ponds: Rating class and limiting features	Value
10D:							
Highsplint----------	90	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Large stones content	0.01	Depth to water	1.00
		Slope	1.00				
11E:							
Highsplint----------	50	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Large stones content	0.01	Depth to water	1.00
		Slope	1.00				
Shelocta----------	40	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	0.70				
11F:							
Highsplint----------	55	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Large stones content	0.01	Depth to water	1.00
		Slope	1.00				
Shelocta----------	40	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	0.70				
12F:							
Itmann, unstable fill----------	95	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.12	Depth to water	1.00
		Slope	1.00				
13D:							
Kaymine, unstable fill----------	90	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Large stones content	0.03	Depth to water	1.00
		Seepage	0.57				
14E:							
Kaymine, unstable fill----------	85	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Large stones content	0.03	Depth to water	1.00
		Seepage	0.57				
Cedarcreek, unstable fill----------	15	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Seepage	0.12	Depth to water	1.00
		Seepage	0.57				
15F:							
Kaymine, unstable fill----------	35	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Large stones content	0.03	Depth to water	1.00
		Seepage	0.57				
Cedarcreek, unstable fill----------	30	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Seepage	0.12	Depth to water	1.00
		Seepage	0.57				

Table 14.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas: Rating class and limiting features	Value	Embankments, dikes, and levees: Rating class and limiting features	Value	Aquifer-fed excavated ponds: Rating class and limiting features	Value
15F:							
Fiveblock, unstable fill	25	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.12	Depth to water	1.00
		Slope	1.00	Large stones content	0.05		
16C:							
Kaymine, unstable fill	55	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Large stones content	0.03	Depth to water	1.00
		Seepage	0.57				
Fiveblock, unstable fill	25	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.12	Depth to water	1.00
		Slope	1.00	Large stones content	0.05		
Cedarcreek, unstable fill	20	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Seepage	0.12	Depth to water	1.00
		Seepage	0.57				
17F:							
Kaymine	55	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Large stones content	0.03	Depth to water	1.00
		Seepage	0.57				
Sewell	30	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.12	Depth to water	1.00
		Slope	1.00	Large stones content	0.10		
Rock outcrop	10	Not rated		Not rated		Not rated	
18C:							
Marrowbone	50	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.77	Depth to water	1.00
		Slope	1.00	Seepage	0.07		
		Depth to bedrock	0.26				
Gilpin	45	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
18D:							
Marrowbone	50	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.77	Depth to water	1.00
		Slope	1.00	Seepage	0.07		
		Depth to bedrock	0.26				
Gilpin	45	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				

Table 14.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas: Rating class and limiting features	Value	Embankments, dikes, and levees: Rating class and limiting features	Value	Aquifer-fed excavated ponds: Rating class and limiting features	Value
18E:							
Marrowbone	60	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.77	Depth to water	1.00
		Slope	1.00	Seepage	0.07		
		Depth to bedrock	0.26				
Gilpin	35	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
18F:							
Marrowbone	75	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.77	Depth to water	1.00
		Slope	1.00	Seepage	0.07		
		Depth to bedrock	0.26				
Gilpin	15	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
19F:							
Matewan	55	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.56	Depth to water	1.00
		Slope	1.00	Seepage	0.03		
		Depth to bedrock	0.56				
Gilpin	30	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
Rock outcrop	10	Not rated		Not rated		Not rated	
20A:							
Philo	95	Very limited		Very limited		Somewhat limited	
		Seepage	1.00	Depth to saturated zone	1.00	Cutbanks cave	0.10
				Seepage	0.02		
21F:							
Ramsey	55	Very limited		Very limited		Very limited	
		Slope	1.00	Thin layer	1.00	Depth to water	1.00
		Depth to bedrock	1.00	Seepage	0.03		
Alticrest	20	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Thin layer	0.86	Depth to water	1.00
		Slope	1.00	Seepage	0.07		
		Depth to bedrock	0.86				
Rock outcrop	15	Not rated		Not rated		Not rated	
22E:							
Sewell, unstable fill	85	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.12	Depth to water	1.00
		Slope	1.00	Large stones content	0.10		

Table 14.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas: Rating class and limiting features	Value	Embankments, dikes, and levees: Rating class and limiting features	Value	Aquifer-fed excavated ponds: Rating class and limiting features	Value
22F:							
Sewell, unstable fill	85	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.12	Depth to water	1.00
		Slope	1.00	Large stones content	0.10		
23F:							
Shelocta	70	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	0.70				
Cedarcreek, unstable fill	25	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Seepage	0.12	Depth to water	1.00
		Seepage	0.57				
24E:							
Shelocta	65	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	0.70				
Gilpin	30	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
24F:							
Shelocta	60	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	0.70				
Gilpin	35	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Thin layer	0.70	Depth to water	1.00
		Seepage	0.70				
		Depth to bedrock	0.52				
25F:							
Shelocta	55	Very limited		Not limited		Very limited	
		Slope	1.00			Depth to water	1.00
		Seepage	0.70				
Kaymine, unstable fill	40	Very limited		Somewhat limited		Very limited	
		Slope	1.00	Large stones content	0.03	Depth to water	1.00
		Seepage	0.57				
26F:							
Stonecoal, unstable fill	85	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Seepage	0.38	Depth to water	1.00
		Slope	1.00	Large stones content	0.08		
27:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	30	Not rated		Not rated		Not rated	

Table 14.—Water Management—Continued

Map symbol and soil name	Pct. of map unit	Pond reservoir areas: Rating class and limiting features	Value	Embankments, dikes, and levees: Rating class and limiting features	Value	Aquifer-fed excavated ponds: Rating class and limiting features	Value
28:							
Udorthents	45	Not rated		Not rated		Not rated	
Urban land	35	Not rated		Not rated		Not rated	
29D:							
Varilla	80	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Large stones content	0.35	Depth to water	1.00
		Slope	1.00				
30D:							
Varilla	75	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Large stones content	0.35	Depth to water	1.00
		Slope	1.00				
Rock outcrop	10	Not rated		Not rated		Not rated	
30E:							
Varilla	75	Very limited		Somewhat limited		Very limited	
		Seepage	1.00	Large stones content	0.35	Depth to water	1.00
		Slope	1.00				
Rock outcrop	10	Not rated		Not rated		Not rated	
DAM:							
Dam	100	Not rated		Not rated		Not rated	
W:							
Water	100	Not rated		Not rated		Not rated	

Table 15.—Engineering Properties

(Absence of an entry indicates that 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 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
1D:												
Alticrest-------	0-3	Fine sandy loam	SM, SC-SM	A-2-4, A-4	0	0	85-100	75-100	55-85	30-55	14-22	2-7
	3-27	Sandy loam, loam	SM, SC-SM, ML, CL-ML	A-4, A-2-4	0	0	85-100	75-100	45-95	25-75	14-23	2-7
	27-30	Loamy sand, sandy loam, sand	SM, SP-SM	A-2-4, A-1-b, A-4	0	0	85-100	75-100	40-75	5-40	10-16	NP-3
	30-40	Bedrock			---	---	---	---	---	---	---	---
1E:												
Alticrest-------	0-3	Fine sandy loam	SM, SC-SM	A-4, A-2-4	0	0	85-100	75-100	55-85	30-55	14-22	2-7
	3-27	Sandy loam, loam	SM, SC-SM, ML, CL-ML	A-4, A-2-4	0	0	85-100	75-100	45-95	25-75	14-23	2-7
	27-30	Loamy sand, sandy loam, sand	SM, SP-SM	A-2-4, A-1-b, A-4	0	0	85-100	75-100	40-75	5-40	10-16	NP-3
	30-40	Bedrock			---	---	---	---	---	---	---	---
2C:												
Cedarcreek------	0-3	Very channery loam	SC, GC	A-2-4, A-2, A-4	0-5	10-20	50-65	35-55	30-50	20-40	20-30	5-10
	3-15	Very channery loam, very channery silt loam, stony loam, extremely channery fine sandy loam	SC, GW-GC, GC	A-2-4, A-2, A-4	0-15	10-30	40-65	15-55	15-55	5-50	20-30	5-10
	15-65	Extremely channery loam, extremely channery silt loam, very stony loam, extremely channery fine sandy loam	GC, GW-GC, SC	A-4, A-2, A-2-4	0-25	10-35	40-65	20-55	15-55	5-50	25-30	5-10
Sewell----------	0-4	Channery sandy loam	SC-SM, SM	A-2, A-1-b, A-1	0-10	5-20	75-85	60-80	35-55	20-35	15-25	NP-5
	4-9	Very channery sandy loam, very channery fine sandy loam, extremely stony loam	GW-GM, GC-GM, GM, SM, SC-SM	A-2, A-4, A-1, A-1-b	10-40	10-40	40-70	20-60	15-55	10-45	15-25	NP-5
	9-65	Extremely channery sandy loam, very channery fine sandy loam, extremely stony loam	GW-GM, GC-GM, GM, SM, SC-SM	A-2, A-1, A-1-a, A-4	10-30	10-40	40-70	20-60	15-55	10-45	15-25	NP-5
Rock outcrop.												

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas-ticity index
	In				Pct	Pct					Pct	
3E:												
Cloverlick------	0-7	Gravelly silt loam	CL, ML, CL-ML, SM, SC, SC-SM	A-4	0	0-5	60-80	50-70	40-70	35-60	10-30	NP-11
	7-10	Gravelly silt loam, channery loam	CL, ML, CL-ML, SM, SC, SC-SM	A-4, A-2	0	0-5	60-80	50-70	40-70	30-65	10-30	NP-11
	10-44	Very gravelly loam, gravelly loam, very channery silt loam, very flaggy silt loam	SC-SM, SC, SM, CL-ML, CL, ML, GC-GM	A-4, A-2-4, A-2	0-5	5-20	60-80	45-80	40-80	30-70	13-30	1-11
	44-63	Very gravelly sandy loam, very gravelly loam, extremely channery fine sandy loam, very flaggy silt loam	GM, GC, GC-GM, SM, SC, SC-SM, GP-GM, GP-GC	A-2, A-4, A-1, A-1-a	0-5	10-25	30-70	10-60	5-60	5-50	12-30	1-11
Shelocta--------	0-4	Gravelly loam	SC-SM, SM, SC	A-4, A-2	0	0-5	60-80	50-70	40-70	30-55	13-30	1-11
	4-13	Loam, silty clay loam, gravelly silt loam	CL-ML, ML, CL, SM, SC, SC-SM	A-6, A-4, A-2	0	0-10	60-95	50-90	40-90	30-85	13-39	1-16
	13-50	Gravelly loam, gravelly silt loam, silty clay loam, very gravelly silt loam	SC, SC-SM, CL, CL-ML	A-4, A-6, A-2	0-5	0-15	60-95	45-90	40-90	30-85	23-39	7-16
	50-86	Very gravelly loam, extremely gravelly loam, gravelly silty clay loam, cobbly clay loam	SC, SC-SM, SM, CL, CL-ML, ML, GC	A-4, A-2, A-1, A-6, A-2-4	0-5	0-15	50-80	35-75	30-75	20-70	13-39	1-16

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
3F:												
Cloverlick------	0-7	Gravelly silt loam	CL, ML, CL-ML, SM, SC, SC-SM	A-4	0	0-5	60-80	50-70	40-70	35-60	10-30	NP-11
	7-10	Gravelly silt loam, channery loam	CL, ML, CL-ML, SM, SC, SC-SM	A-2, A-4	0	0-5	60-80	50-70	40-70	30-65	10-30	NP-11
	10-44	Very gravelly loam, gravelly loam, very channery silt loam, very flaggy silt loam	SC-SM, SC, SM, CL-ML, CL, ML, GC-GM	A-4, A-2, A-2-4	0-5	5-20	60-80	45-80	40-80	30-70	13-30	1-11
	44-63	Very gravelly sandy loam, very gravelly loam, extremely channery fine sandy loam, very flaggy silt loam	GM, GC, GC-GM, SM, SC, SC-SM, GP-GM, GP-GC	A-1-a, A-1, A-2, A-4	0-5	10-25	30-70	10-60	5-60	5-50	12-30	1-11
Shelocta--------	0-4	Gravelly loam	SC-SM, SM, SC	A-2, A-4	0	0-5	60-80	50-70	40-70	30-55	13-30	1-11
	4-13	Loam, silty clay loam, gravelly silt loam	CL-ML, ML, CL, SM, SC, SC-SM	A-2, A-4, A-6	0	0-10	60-95	50-90	40-90	30-85	13-39	1-16
	13-50	Gravelly loam, gravelly silt loam, silty clay loam, very gravelly silt loam	SC, SC-SM, CL, CL-ML	A-2, A-4, A-6	0-5	0-15	60-95	45-90	40-90	30-85	23-39	7-16
	50-86	Very gravelly loam, extremely gravelly loam, gravelly silty clay loam, cobbly clay loam	SC, SC-SM, SM, CL, CL-ML, ML, GC	A-4, A-2-4, A-6, A-1, A-2	0-5	0-15	50-80	35-75	30-75	20-70	13-39	1-16
4C:												
Cotaco----------	0-12	Loam	CL, CL-ML, ML	A-4	0	0-5	85-100	80-100	70-95	50-75	13-31	1-11
	12-39	Clay loam, loam, channery sandy clay loam, silt loam, silty clay loam	CL, SC	A-6, A-4, A-2	0	0-10	70-100	60-100	50-100	20-95	23-39	7-16
	39-65	Channery loam, loam, clay loam, very channery sandy clay loam, silt loam, silty clay loam	CL, CL-ML, ML, SC, SC-SM, SM	A-1, A-2, A-4, A-6	0	0-15	55-100	40-100	35-100	15-95	13-34	1-13

Table 15.—Engineering 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	
5B:												
Craigsville-----	0-15	Fine sandy loam, cobbly sandy loam	SM, SC-SM	A-2, A-4	0	9-33	69-100	68-100	59-96	25-47	20-35	NP-10
	15-25	Very cobbly fine sandy loam, very cobbly loam, extremely cobbly sandy loam	SC, GM, SC-SM	A-2, A-4, A-2-4, A-1	0	43-59	42-88	40-88	34-84	15-41	15-30	NP-10
	25-60	Very cobbly sandy loam, extremely cobbly loamy sand	SC-SM, GM	A-2, A-1, A-2-4	0-8	43-59	47-88	45-88	33-69	16-35	15-25	NP-5
6. Dumps, mine- Urban land												
7D:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-2, A-6, A-4	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-2, A-6, A-4	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-6, A-2	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-1-b, A-2, A-1, A-6	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
8C:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-2, A-4, A-6	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-4, A-6, A-2	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-2, A-6	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-6, A-1-b, A-2, A-1	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
Berks----------	0-4	Silt loam	CL-ML, ML, CL	A-4	0	0	75-100	70-100	60-100	45-90	12-30	1-11
	4-8	Channery silt loam, very channery loam, channery silty clay loam	CL-ML, CL, ML, SM, SC, SC-SM, GM, GC, GC-GM	A-6, A-2, A-1, A-4	0	0-5	45-80	30-75	25-70	15-70	12-34	1-13
	8-23	Very channery silt loam, very channery loam, very channery silty clay loam	SC-SM, SC, SM, GC-GM	A-6, A-1, A-2, A-4	0	0-20	50-65	30-50	30-50	20-50	12-34	1-13
	23-34	Extremely channery silt loam, very channery silt loam, extremely channery loam	GC-GM, GC, GM, SC-SM, SM, SC	A-4, A-2, A-1-b, A-1	0-1	0-25	35-65	15-50	15-50	10-45	12-25	1-8
	34-36	Weathered bedrock			---	---	---	---	---	---	---	---
	36-46	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
8D:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-2, A-6	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-2, A-6, A-1-b, A-1	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
Berks----------	0-4	Silt loam	CL-ML, ML, CL	A-4	0	0	75-100	70-100	60-100	45-90	12-30	1-11
	4-8	Channery silt loam, very channery loam, channery silty clay loam	CL-ML, CL, ML, SM, SC, SC-SM, GM, GC, GC-GM	A-6, A-2, A-1, A-4	0	0-5	45-80	30-75	25-70	15-70	12-34	1-13
	8-23	Very channery silt loam, very channery loam, very channery silty clay loam	SC-SM, SC, SM, GC-GM	A-2, A-1, A-6, A-4	0	0-20	50-65	30-50	30-50	20-50	12-34	1-13
	23-34	Extremely channery silt loam, very channery silt loam, extremely channery loam	GC-GM, GC, GM, SC-SM, SM, SC	A-1, A-2, A-4, A-1-b	0-1	0-25	35-65	15-50	15-50	10-45	12-25	1-8
	34-36	Weathered bedrock			---	---	---	---	---	---	---	---
	36-46	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
8E:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-2, A-6	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-1, A-2, A-6, A-1-b	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
Berks----------	0-4	Silt loam	CL-ML, ML, CL	A-4	0	0	75-100	70-100	60-100	45-90	12-30	1-11
	4-8	Channery silt loam, very channery loam, channery silty clay loam	CL-ML, CL, ML, SM, SC, SC-SM, GM, GC, GC-GM	A-4, A-1, A-6, A-2	0	0-5	45-80	30-75	25-70	15-70	12-34	1-13
	8-23	Very channery silt loam, very channery loam, very channery silty clay loam	SC-SM, SC, SM, GC-GM	A-4, A-2, A-1, A-6	0	0-20	50-65	30-50	30-50	20-50	12-34	1-13
	23-34	Extremely channery silt loam, very channery silt loam, extremely channery loam	GC-GM, GC, GM, SC-SM, SM, SC	A-1, A-1-b, A-4, A-2	0-1	0-25	35-65	15-50	15-50	10-45	12-25	1-8
	34-36	Weathered bedrock			---	---	---	---	---	---	---	---
	36-46	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
8F:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-4, A-6, A-2	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-6, A-2	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-2, A-1-b, A-1, A-6	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
Berks----------	0-4	Silt loam	CL-ML, ML, CL	A-4	0	0	75-100	70-100	60-100	45-90	12-30	1-11
	4-8	Channery silt loam, very channery loam, channery silty clay loam	CL-ML, CL, ML, SM, SC, SC-SM, GM, GC, GC-GM	A-2, A-6, A-1, A-4	0	0-5	45-80	30-75	25-70	15-70	12-34	1-13
	8-23	Very channery silt loam, very channery loam, very channery silty clay loam	SC-SM, SC, SM, GC-GM	A-6, A-1, A-2, A-4	0	0-20	50-65	30-50	30-50	20-50	12-34	1-13
	23-34	Extremely channery silt loam, very channery silt loam, extremely channery loam	GC-GM, GC, GM, SC-SM, SM, SC	A-2, A-1, A-4, A-1-b	0-1	0-25	35-65	15-50	15-50	10-45	12-25	1-8
	34-36	Weathered bedrock			---	---	---	---	---	---	---	---
	36-46	Bedrock			---	---	---	---	---	---	---	---
9A:												
Grigsby---------	0-11	Fine sandy loam	SC-SM, SM, SC	A-2, A-4	0	0	85-100	75-100	50-85	30-55	12-25	1-8
	11-32	Fine sandy loam, loam, sandy loam	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	85-100	75-100	45-95	25-75	12-23	1-7
	32-53	Loamy sand, gravelly loamy fine sand, very gravelly sandy loam, fine sandy loam	SM, GM, GW-GM	A-2, A-1, A-4, A-2-4	0	0	45-100	30-100	15-85	5-55	9-16	NP-3
	53-61	Gravelly sand, sandy loam, gravelly sandy loam, fine sandy loam, loamy fine sand, loamy sand, fine sand	SP-SM, SW, SM, GW-GM, GW	A-2, A-1, A-1-b, A-4	0	0-10	45-100	25-100	15-85	1-55	8-16	NP-3

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
10D:												
Highsplint------	0-3	Channery silt loam	CL-ML, ML, CL, SC-SM, SM, SC	A-4	0-3	0-15	70-85	60-80	50-75	40-70	12-25	1-8
	3-59	Very channery silt loam, channery silt loam, very flaggy silt loam, channery silty clay loam, very channery clay loam	SC-SM, SM, SC, CL-ML, ML, CL, GC-GM	A-4, A-2, A-6	0-10	10-30	60-85	45-80	40-75	30-70	12-34	1-13
	59-82	Very channery loam, very gravelly fine sandy loam, very channery sandy loam, extremely flaggy silt loam	SC-SM, SC, SM, SP-SM, SP-SC, GC-GM	A-2, A-1, A-4, A-2-4	0-10	15-30	50-70	30-60	20-60	10-55	12-30	1-11
11E:												
Highsplint------	0-3	Channery silt loam	CL-ML, ML, CL, SC-SM, SM, SC	A-4	0-3	0-15	70-85	60-80	50-75	40-70	12-25	1-8
	3-59	Very channery silt loam, channery silt loam, very flaggy silt loam, channery silty clay loam, very channery clay loam	SC-SM, SM, SC, CL-ML, ML, CL, GC-GM	A-6, A-2, A-4	0-10	10-30	60-85	45-80	40-75	30-70	12-34	1-13
	59-82	Very channery loam, very gravelly fine sandy loam, very channery sandy loam, extremely flaggy silt loam	SC-SM, SC, SM, SP-SM, SP-SC, GC-GM	A-1, A-4, A-2, A-2-4	0-10	15-30	50-70	30-60	20-60	10-55	12-30	1-11
Shelocta--------	0-4	Gravelly loam	SC-SM, SM, SC	A-2, A-4	0	0-5	60-80	50-70	40-70	30-55	13-30	1-11
	4-13	Loam, silty clay loam, gravelly silt loam	CL-ML, ML, CL, SM, SC, SC-SM	A-2, A-4, A-6	0	0-10	60-95	50-90	40-90	30-85	13-39	1-16
	13-50	Gravelly loam, gravelly silt loam, silty clay loam, very gravelly silt loam	SC, SC-SM, CL, CL-ML	A-4, A-2, A-6	0-5	0-15	60-95	45-90	40-90	30-85	23-39	7-16
	50-86	Very gravelly loam, extremely gravelly loam, gravelly silty clay loam, cobbly clay loam	SC, SC-SM, SM, CL, CL-ML, ML, GC	A-2, A-6, A-2-4, A-1, A-4	0-5	0-15	50-80	35-75	30-75	20-70	13-39	1-16

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
11F:												
Highsplint------	0-3	Channery silt loam	CL-ML, ML, CL, SC-SM, SM, SC	A-4	0-3	0-15	70-85	60-80	50-75	40-70	12-25	1-8
	3-59	Very channery silt loam, channery silt loam, very flaggy silt loam, channery silty clay loam, very channery clay loam	SC-SM, SM, SC, CL-ML, ML, CL, GC-GM	A-6, A-2, A-4	0-10	10-30	60-85	45-80	40-75	30-70	12-34	1-13
	59-82	Very channery loam, very gravelly fine sandy loam, very channery sandy loam, extremely flaggy silt loam	SC-SM, SC, SM, SP-SM, SP-SC, GC-GM	A-2-4, A-1, A-2, A-4	0-10	15-30	50-70	30-60	20-60	10-55	12-30	1-11
Shelocta--------	0-4	Gravelly loam	SC-SM, SM, SC	A-4, A-2	0	0-5	60-80	50-70	40-70	30-55	13-30	1-11
	4-13	Loam, silty clay loam, gravelly silt loam	CL-ML, ML, CL, SM, SC, SC-SM	A-6, A-4, A-2	0	0-10	60-95	50-90	40-90	30-85	13-39	1-16
	13-50	Gravelly loam, gravelly silt loam, silty clay loam, very gravelly silt loam	SC, SC-SM, CL, CL-ML	A-6, A-4, A-2	0-5	0-15	60-95	45-90	40-90	30-85	23-39	7-16
	50-86	Very gravelly loam, extremely gravelly loam, gravelly silty clay loam, cobbly clay loam	SC, SC-SM, SM, CL, CL-ML, ML, GC	A-6, A-2-4, A-1, A-2, A-4	0-5	0-15	50-80	35-75	30-75	20-70	13-39	1-16
12F:												
Itmann, unstable fill----------	0-4	Gravelly loam	SM, SC-SM, ML, CL-ML	A-4, A-2	0	0-10	65-85	50-80	45-75	30-60	12-20	1-5
	4-27	Very channery sandy loam, very gravelly loam, extremely gravelly sandy loam	GC, GM, GC-GM, GP-GC, GP-GM, SC, SC-SM, SM	A-2, A-1, A-1-a	0	0-20	30-60	15-50	10-45	5-40	12-25	1-8
	27-63	Extremely gravelly sandy loam, very channery loam, very channery sandy loam	GM, GP-GM, GC-GM, SM, SC-SM, GW-GM	A-2, A-1, A-1-a	0	0-15	30-60	15-50	10-45	5-35	12-20	1-5

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
13D:												
Kaymine, unstable fill--	0-4	Very channery silt loam	SC-SM, SM, SC, GC-GM, GC, GM	A-2, A-4, A-1	0	2-10	45-65	30-50	30-50	20-45	13-25	1-8
	4-28	Extremely channery silt loam, very channery silt loam, extremely channery loam, stony loam	SC-SM, SM, SC, GC-GM, GC, GM	A-1, A-2-4, A-2, A-4	0-15	10-25	40-70	20-60	20-60	10-50	13-30	1-11
	28-64	Very flaggy silt loam, very channery silt loam, extremely channery loam, very stony loam	SC-SM, SM, SC, GC-GM, ML, GC, GM, CL-ML, CL	A-4, A-1, A-2	10-25	10-35	45-80	30-70	25-70	20-65	13-30	1-11
14E:												
Kaymine, unstable fill--	0-4	Very channery silt loam	SC-SM, SM, SC, GC-GM, GC, GM	A-1, A-4, A-2	0	2-10	45-65	30-50	30-50	20-45	13-25	1-8
	4-28	Extremely channery silt loam, very channery silt loam, extremely channery loam, stony loam	SC-SM, SM, SC, GC-GM, GC, GM	A-4, A-2, A-2-4, A-1	0-15	10-25	40-70	20-60	20-60	10-50	13-30	1-11
	28-64	Very flaggy silt loam, very channery silt loam, extremely channery loam, very stony loam	SC-SM, SM, SC, GC-GM, ML, GC, GM, CL-ML, CL	A-4, A-1, A-2	10-25	10-35	45-80	30-70	25-70	20-65	13-30	1-11
Cedarcreek, unstable fill--	0-3	Very channery loam	SC, GC	A-2, A-4, A-2-4	0-5	10-20	50-65	35-55	30-50	20-40	20-30	5-10
	3-15	Very channery loam, very channery silt loam, stony loam, extremely channery fine sandy loam	SC, GW-GC, GC	A-4, A-2, A-2-4	0-15	10-30	40-65	15-55	15-55	5-50	20-30	5-10
	15-65	Extremely channery loam, extremely channery silt loam, very stony loam, extremely channery fine sandy loam	GC, GW-GC, SC	A-2, A-2-4, A-4	0-25	10-35	40-65	20-55	15-55	5-50	25-30	5-10

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas-ticity index
	In				Pct	Pct					Pct	
15F:												
Kaymine, unstable fill--	0-4	Very channery silt loam	SC-SM, SM, SC, GC-GM, GC, GM	A-4, A-2, A-1	0	2-10	45-65	30-50	30-50	20-45	13-25	1-8
	4-28	Extremely channery silt loam, very channery silt loam, extremely channery loam, stony loam	SC-SM, SM, SC, GC-GM, GC, GM	A-2-4, A-4, A-1, A-2	0-15	10-25	40-70	20-60	20-60	10-50	13-30	1-11
	28-64	Very flaggy silt loam, very channery silt loam, extremely channery loam, very stony loam	SC-SM, SM, SC, GC-GM, ML, GC, GM, CL-ML, CL	A-2, A-1, A-4	10-25	10-35	45-80	30-70	25-70	20-65	13-30	1-11
Cedarcreek, unstable fill--	0-3	Very channery loam	SC, GC	A-2-4, A-2, A-4	0-5	10-20	50-65	35-55	30-50	20-40	20-30	5-10
	3-15	Very channery loam, very channery silt loam, stony loam, extremely channery fine sandy loam	SC, GW-GC, GC	A-4, A-2, A-2-4	0-15	10-30	40-65	15-55	15-55	5-50	20-30	5-10
	15-65	Extremely channery loam, extremely channery silt loam, very stony loam, extremely channery fine sandy loam	GC, GW-GC, SC	A-2-4, A-2, A-4	0-25	10-35	40-65	20-55	15-55	5-50	25-30	5-10
Fiveblock, unstable fill--	0-6	Very channery sandy loam	SC-SM, SM	A-1-a, A-2, A-1	0-10	10-35	50-65	35-55	20-40	10-20	12-23	1-7
	6-25	Very channery sandy loam, extremely channery sandy loam, extremely stony loamy sand	SC-SM, SM, GW-GM	A-1, A-1-a, A-2	10-40	10-40	40-70	20-60	10-45	5-25	12-23	1-7
	25-65	Extremely channery sandy loam, very channery sandy loam, extremely stony loamy sand	GW-GM, SM, SC-SM, GW-GC	A-1, A-2, A-1-a	10-30	10-40	40-70	20-60	10-45	5-25	12-23	1-7

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
16C:												
Kaymine, unstable fill--	0-4	Very channery silt loam	SC-SM, SM, SC, GC-GM, GC, GM	A-1, A-4, A-2	0	2-10	45-65	30-50	30-50	20-45	13-25	1-8
	4-28	Extremely channery silt loam, very channery silt loam, extremely channery loam, stony loam	SC-SM, SM, SC, GC-GM, GC, GM	A-2-4, A-4, A-1, A-2	0-15	10-25	40-70	20-60	20-60	10-50	13-30	1-11
	28-64	Very flaggy silt loam, very channery silt loam, extremely channery loam, very stony loam	SC-SM, SM, SC, GC-GM, ML, GC, GM, CL-ML, CL	A-1, A-4, A-2	10-25	10-35	45-80	30-70	25-70	20-65	13-30	1-11
Fiveblock, unstable fill--	0-6	Very channery sandy loam	SC-SM, SM	A-2, A-1-a, A-1	0-10	10-35	50-65	35-55	20-40	10-20	12-23	1-7
	6-25	Very channery sandy loam, extremely channery sandy loam, extremely stony loamy sand	SC-SM, SM, GW-GM	A-1, A-1-a, A-2	10-40	10-40	40-70	20-60	10-45	5-25	12-23	1-7
	25-65	Extremely channery sandy loam, very channery sandy loam, extremely stony loamy sand	GW-GM, SM, SC-SM, GW-GC	A-2, A-1, A-1-a	10-30	10-40	40-70	20-60	10-45	5-25	12-23	1-7
Cedarcreek, unstable fill--	0-3	Very channery loam	SC, GC	A-4, A-2, A-2-4	0-5	10-20	50-65	35-55	30-50	20-40	20-30	5-10
	3-15	Very channery loam, very channery silt loam, stony loam, extremely channery fine sandy loam	SC, GW-GC, GC	A-2, A-4, A-2-4	0-15	10-30	40-65	15-55	15-55	5-50	20-30	5-10
	15-65	Extremely channery loam, extremely channery silt loam, very stony loam, extremely channery fine sandy loam	GC, GW-GC, SC	A-2-4, A-2, A-4	0-25	10-35	40-65	20-55	15-55	5-50	25-30	5-10

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
17F:												
Kaymine---------	0-4	Very channery silt loam	SC-SM, SM, SC, GC-GM, GC, GM	A-2, A-4, A-1	0	2-10	45-65	30-50	30-50	20-45	13-25	1-8
	4-28	Extremely channery silt loam, very channery silt loam, extremely channery loam, stony loam	SC-SM, SM, SC, GC-GM, GC, GM	A-4, A-1, A-2-4, A-2	0-15	10-25	40-70	20-60	20-60	10-50	13-30	1-11
	28-64	Very flaggy silt loam, very channery silt loam, extremely channery loam, very stony loam	SC-SM, SM, SC, ML, GC-GM, GC, GM, CL-ML, CL	A-2, A-1, A-4	10-25	10-35	45-80	30-70	25-70	20-65	13-30	1-11
Sewell----------	0-4	Channery sandy loam	SC-SM, SM	A-1-b, A-2, A-1	0-10	5-20	75-85	60-80	35-55	20-35	15-25	NP-5
	4-9	Very channery sandy loam, very channery fine sandy loam, extremely stony loam	GW-GM, GC-GM, GM, SM, SC-SM	A-2, A-1-b, A-4, A-1	10-40	10-40	40-70	20-60	15-55	10-45	15-25	NP-5
	9-65	Extremely channery sandy loam, very channery fine sandy loam, extremely stony loam	GW-GM, GC-GM, GM, SM, SC-SM	A-1, A-2, A-1-a, A-4	10-30	10-40	40-70	20-60	15-55	10-45	15-25	NP-5
Rock outcrop.												
18C:												
Marrowbone------	0-5	Fine sandy loam	SM, SC-SM, ML, CL-ML	A-4, A-2	0	0	85-100	75-100	55-85	30-55	11-23	NP-7
	5-22	Gravelly sandy loam, fine sandy loam, sandy loam	SM, SC-SM	A-1, A-4, A-1-b, A-2	0	0	65-100	55-90	30-80	15-50	9-23	NP-7
	22-33	Very gravelly loamy fine sand, fine sandy loam, gravelly sandy loam, very gravelly loamy sand	SM, SC-SM, SW-SM, GC-GM	A-4, A-1-a, A-1, A-2	0	0-10	55-90	40-85	20-70	5-45	9-21	NP-6
	33-45	Weathered bedrock			---	---	---	---	---	---	---	---
	45-55	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
18C:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-2, A-4, A-6	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-4, A-2	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-6, A-2	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-1, A-2, A-6, A-1-b	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
18D:												
Marrowbone------	0-5	Fine sandy loam	SM, SC-SM, ML, CL-ML	A-4, A-2	0	0	85-100	75-100	55-85	30-55	11-23	NP-7
	5-22	Gravelly sandy loam, fine sandy loam, sandy loam	SM, SC-SM	A-1-b, A-4, A-1, A-2	0	0	65-100	55-90	30-80	15-50	9-23	NP-7
	22-33	Very gravelly loamy fine sand, fine sandy loam, gravelly sandy loam, very gravelly loamy sand	SM, SC-SM, SW-SM, GC-GM	A-4, A-2, A-1-a, A-1	0	0-10	55-90	40-85	20-70	5-45	9-21	NP-6
	33-45	Weathered bedrock			---	---	---	---	---	---	---	---
	45-55	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas-ticity index
	In				Pct	Pct					Pct	
18D:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-2, A-4, A-6	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-2, A-6	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-1, A-2, A-1-b, A-6	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
18E:												
Marrowbone------	0-5	Fine sandy loam	SM, SC-SM, ML, CL-ML	A-4, A-2	0	0	85-100	75-100	55-85	30-55	11-23	NP-7
	5-22	Gravelly sandy loam, fine sandy loam, sandy loam	SM, SC-SM	A-1-b, A-2, A-1, A-4	0	0	65-100	55-90	30-80	15-50	9-23	NP-7
	22-33	Very gravelly loamy fine sand, fine sandy loam, gravelly sandy loam, very gravelly loamy sand	SM, SC-SM, SW-SM, GC-GM	A-4, A-2, A-1-a, A-1	0	0-10	55-90	40-85	20-70	5-45	9-21	NP-6
	33-45	Weathered bedrock			---	---	---	---	---	---	---	---
	45-55	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
18E:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-4, A-6, A-2	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-4, A-6, A-2	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-6, A-2	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-1-b, A-6, A-2, A-1	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
18F:												
Marrowbone------	0-5	Fine sandy loam	SM, SC-SM, ML, CL-ML	A-2, A-4	0	0	85-100	75-100	55-85	30-55	11-23	NP-7
	5-22	Gravelly sandy loam, fine sandy loam, sandy loam	SM, SC-SM	A-1, A-2, A-1-b, A-4	0	0	65-100	55-90	30-80	15-50	9-23	NP-7
	22-33	Very gravelly loamy fine sand, fine sandy loam, gravelly sandy loam, very gravelly loamy sand	SM, SC-SM, SW-SM, GC-GM	A-2, A-4, A-1-a, A-1	0	0-10	55-90	40-85	20-70	5-45	9-21	NP-6
	33-45	Weathered bedrock			---	---	---	---	---	---	---	---
	45-55	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas-ticity index
	In				Pct	Pct					Pct	
18F:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-4, A-6, A-2	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-2, A-6	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-2, A-1, A-1-b, A-6	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
19F:												
Matewan---------	0-4	Flaggy fine sandy loam	SM, SC, SC-SM	A-4	0-5	5-20	80-90	75-85	55-70	30-50	10-25	NP-8
	4-21	Very flaggy fine sandy loam, very flaggy sandy loam, very channery loam	SM, SC-SM	A-4, A-2, A-1, A-2-4	5-15	15-30	65-75	55-70	30-65	15-50	12-23	1-7
	21-38	Very gravelly sandy loam, extremely gravelly sandy loam, extremely channery loamy sand, extremely gravelly loam	GM, GC-GM, GP-GM, SC-SM, SM	A-1, A-1-a, A-2	0-15	5-20	40-60	20-50	10-50	5-40	10-21	NP-6
	38-48	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
19F:												
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-2, A-4, A-6	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-4, A-2	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-6, A-2	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-6, A-1, A-2, A-1-b	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
Rock outcrop.												
20A:												
Philo----------	0-8	Fine sandy loam	CL-ML, SM, SC-SM	A-4	0	0-8	85-100	80-100	55-85	30-55	16-23	3-7
	8-62	Fine sandy loam, sandy loam, loam	SC-SM, SM, ML, CL-ML	A-4, A-2-4	0	0-8	85-100	80-100	50-95	25-75	16-23	3-7
21F:												
Ramsey----------	0-5	Sandy loam	SC-SM, SM	A-2-4	0-2	0-3	90-100	80-100	50-70	25-40	10-20	NP-5
	5-17	Sandy loam, loam, gravelly sandy loam	CL-ML, SM, SC-SM	A-2-4	0-3	0-4	65-95	55-90	30-85	15-70	10-25	NP-5
	17-27	Bedrock			---	---	---	---	---	---	---	---
Alticrest-------	0-3	Fine sandy loam	SM, SC-SM	A-4, A-2-4	0	0	85-100	75-100	55-85	30-55	14-22	2-7
	3-27	Sandy loam, loam	SM, SC-SM, ML, CL-ML	A-2-4, A-4	0	0	85-100	75-100	45-95	25-75	14-23	2-7
	27-30	Loamy sand, sandy loam, sand	SM, SP-SM	A-1-b, A-4, A-2-4	0	0	85-100	75-100	40-75	5-40	10-16	NP-3
	30-40	Bedrock			---	---	---	---	---	---	---	---
Rock outcrop.												

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
22E:												
Sewell, unstable fill----------	0-4	Channery sandy loam	SC-SM, SM	A-1, A-2, A-1-b	0-10	5-20	75-85	60-80	35-55	20-35	15-25	NP-5
	4-9	Very channery sandy loam, very channery fine sandy loam, extremely stony loam	GW-GM, GC-GM, GM, SM, SC-SM	A-4, A-1, A-1-b, A-2	10-40	10-40	40-70	20-60	15-55	10-45	15-25	NP-5
	9-65	Extremely channery sandy loam, very channery fine sandy loam, extremely stony loam	GW-GM, GC-GM, GM, SM, SC-SM	A-4, A-1-a, A-2, A-1	10-30	10-40	40-70	20-60	15-55	10-45	15-25	NP-5
22F:												
Sewell, unstable fill----------	0-4	Channery sandy loam	SC-SM, SM	A-1-b, A-2, A-1	0-10	5-20	75-85	60-80	35-55	20-35	15-25	NP-5
	4-9	Very channery sandy loam, very channery fine sandy loam, extremely stony loam	GW-GM, GC-GM, GM, SM, SC-SM	A-1, A-1-b, A-2, A-4	10-40	10-40	40-70	20-60	15-55	10-45	15-25	NP-5
	9-65	Extremely channery sandy loam, very channery fine sandy loam, extremely stony loam	GW-GM, GC-GM, GM, SM, SC-SM	A-1-a, A-1, A-2, A-4	10-30	10-40	40-70	20-60	15-55	10-45	15-25	NP-5
23F:												
Shelocta--------	0-4	Gravelly loam	SC-SM, SM, SC	A-2, A-4	0	0-5	60-80	50-70	40-70	30-55	13-30	1-11
	4-13	Loam, silty clay loam, gravelly silt loam	CL-ML, ML, CL, SM, SC, SC-SM	A-2, A-4, A-6	0	0-10	60-95	50-90	40-90	30-85	13-39	1-16
	13-50	Gravelly loam, gravelly silt loam, silty clay loam, very gravelly silt loam	SC, SC-SM, CL, CL-ML	A-4, A-2, A-6	0-5	0-15	60-95	45-90	40-90	30-85	23-39	7-16
	50-86	Very gravelly loam, extremely gravelly loam, gravelly silty clay loam, cobbly clay loam	SC, SC-SM, SM, CL, CL-ML, ML, GC	A-2, A-1, A-6, A-2-4, A-4	0-5	0-15	50-80	35-75	30-75	20-70	13-39	1-16

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
23F:												
Cedarcreek, unstable fill--	0-3	Very channery loam	SC, GC	A-2-4, A-2, A-4	0-5	10-20	50-65	35-55	30-50	20-40	20-30	5-10
	3-15	Very channery loam, very channery silt loam, stony loam, extremely channery fine sandy loam	SC, GW-GC, GC	A-4, A-2, A-2-4	0-15	10-30	40-65	15-55	15-55	5-50	20-30	5-10
	15-65	Extremely channery loam, extremely channery silt loam, very stony loam, extremely channery fine sandy loam	GC, GW-GC, SC	A-4, A-2-4, A-2	0-25	10-35	40-65	20-55	15-55	5-50	25-30	5-10
24E:												
Shelocta--------	0-4	Gravelly loam	SC-SM, SM, SC	A-4, A-2	0	0-5	60-80	50-70	40-70	30-55	13-30	1-11
	4-13	Loam, silty clay loam, gravelly silt loam	CL-ML, ML, CL, SM, SC, SC-SM	A-6, A-2, A-4	0	0-10	60-95	50-90	40-90	30-85	13-39	1-16
	13-50	Gravelly loam, gravelly silt loam, silty clay loam, very gravelly silt loam	SC, SC-SM, CL, CL-ML	A-4, A-2, A-6	0-5	0-15	60-95	45-90	40-90	30-85	23-39	7-16
	50-86	Very gravelly loam, extremely gravelly loam, gravelly silty clay loam, cobbly clay loam	SC, SC-SM, SM, CL, CL-ML, ML, GC	A-2-4, A-6, A-4, A-2, A-1	0-5	0-15	50-80	35-75	30-75	20-70	13-39	1-16
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-6, A-2, A-4	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-2, A-6	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-1-b, A-2, A-1, A-6	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
24F:												
Shelocta--------	0-4	Gravelly loam	SC-SM, SM, SC	A-4, A-2	0	0-5	60-80	50-70	40-70	30-55	13-30	1-11
	4-13	Loam, silty clay loam, gravelly silt loam	CL-ML, ML, CL, SM, SC, SC-SM	A-6, A-2, A-4	0	0-10	60-95	50-90	40-90	30-85	13-39	1-16
	13-50	Gravelly loam, gravelly silt loam, silty clay loam, very gravelly silt loam	SC, SC-SM, CL, CL-ML	A-6, A-2, A-4	0-5	0-15	60-95	45-90	40-90	30-85	23-39	7-16
	50-86	Very gravelly loam, extremely gravelly loam, gravelly silty clay loam, cobbly clay loam	SC, SC-SM, SM, CL, CL-ML, ML, GC	A-6, A-2, A-4, A-1, A-2-4	0-5	0-15	50-80	35-75	30-75	20-70	13-39	1-16
Gilpin----------	0-3	Silt loam	ML, CL, CL-ML, SM, SC, SC-SM	A-2, A-4, A-6	0	0	60-95	50-90	45-90	35-80	9-30	NP-11
	3-5	Silt loam, loam, gravelly loam	ML, CL, CL-ML, SM, SC, SC-SM	A-4, A-2, A-6	0	0-1	60-95	50-90	45-90	30-80	9-30	NP-11
	5-30	Gravelly silt loam, silty clay loam, silt loam, gravelly loam	CL, CL-ML, SC, SC-SM	A-2, A-6	0	0-3	65-95	50-90	45-90	30-85	23-39	7-16
	30-35	Very gravelly loam, very gravelly silt loam, extremely gravelly sandy loam, extremely gravelly loamy fine sand	SM, SC, SC-SM, GM, GC, GC-GM	A-1, A-6, A-2, A-1-b	0	0-10	35-65	15-50	10-50	5-45	9-30	NP-11
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
	39-49	Bedrock			---	---	---	---	---	---	---	---
25F:												
Shelocta--------	0-4	Gravelly loam	SC-SM, SM, SC	A-2, A-4	0	0-5	60-80	50-70	40-70	30-55	13-30	1-11
	4-13	Loam, silty clay loam, gravelly silt loam	CL-ML, ML, CL, SM, SC, SC-SM	A-2, A-4, A-6	0	0-10	60-95	50-90	40-90	30-85	13-39	1-16
	13-50	Gravelly loam, gravelly silt loam, silty clay loam, very gravelly silt loam	SC, SC-SM, CL, CL-ML	A-2, A-6, A-4	0-5	0-15	60-95	45-90	40-90	30-85	23-39	7-16
	50-86	Very gravelly loam, extremely gravelly loam, gravelly silty clay loam, cobbly clay loam	SC, SC-SM, SM, CL, CL-ML, ML, GC	A-2-4, A-6, A-1, A-2, A-4	0-5	0-15	50-80	35-75	30-75	20-70	13-39	1-16

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
25F:												
Kaymine, unstable fill--	0-4	Very channery silt loam	SC-SM, SM, SC, GC-GM, GC, GM	A-1, A-2, A-4	0	2-10	45-65	30-50	30-50	20-45	13-25	1-8
	4-28	Extremely channery silt loam, very channery silt loam, extremely channery loam, stony loam	SC-SM, SM, SC, GC-GM, GC, GM	A-1, A-4, A-2, A-2-4	0-15	10-25	40-70	20-60	20-60	10-50	13-30	1-11
	28-64	Very flaggy silt loam, very channery silt loam, extremely channery loam, very stony loam	SC-SM, SM, SC, GC-GM, ML, GC, GM, CL-ML, CL	A-4, A-1, A-2	10-25	10-35	45-80	30-70	25-70	20-65	13-30	1-11
26F:												
Stonecoal, unstable fill--	0-31	Extremely channery sandy loam, extremely channery loamy sand, very channery fine sandy loam	GW-GM, GW, SM, GM	A-1-a, A-1, A-2	0-1	20-35	35-65	15-55	10-45	3-30	11-16	NP-3
	31-39	Extremely channery sandy loam, extremely channery loamy sand, very channery fine sandy loam	GW-GM, GW, SM, SC-SM, GM, GC-GM	A-1-a, A-2, A-1	0-1	20-35	35-65	15-55	10-45	3-30	11-20	NP-6
	39-68	Extremely channery loamy sand, extremely channery sandy loam, very channery fine sandy loam	GW, GW-GM, SM, GM	A-1, A-2, A-1-a	0-1	20-35	35-65	15-55	10-45	2-30	9-16	NP-3
27. Udorthents-Urban land												
28. Udorthents-Urban land												

Table 15.—Engineering 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	
29D:												
Varilla---------	0-3	Gravelly sandy loam	SM, SC-SM, GM	A-2, A-1, A-2-4, A-5	0	9-17	53-82	51-82	39-74	22-45	20-60	NP-10
	3-9	Gravelly loam, gravelly fine sandy loam, cobbly sandy loam, cobbly loamy sand	GM, SC-SM, SM, CL-ML	A-2, A-4	0	7-14	58-85	56-84	49-84	31-58	15-40	NP-10
	9-14	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	GC, CL-ML, SM, SC-SM	A-1, A-2, A-4	0-5	11-53	39-90	36-89	31-88	20-61	15-35	NP-15
	14-25	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	CL, SC-SM, SM, CL-ML	A-1, A-2, A-4	0-7	11-57	43-90	40-89	36-89	24-65	15-30	NP-10
	25-33	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	SC, SM, CL-ML, SC-SM	A-2, A-4, A-1	0-7	20-57	43-84	40-84	34-82	22-57	15-30	NP-10
	33-61	Extremely cobbly loam, very gravelly sandy loam, very flaggy fine sandy loam, very cobbly loamy sand	GC, GC-GM, GM, GP-GM	A-1, A-2, A-4, A-2-6	0-5	26-68	22-76	18-75	14-66	8-43	15-30	NP-15

Table 15.—Engineering Properties—Continued

Map symbol and soil name	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Fragments: >10 inches	Fragments: 3-10 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plasticity index
	In				Pct	Pct					Pct	
30D:												
Varilla---------	0-3	Gravelly sandy loam	SC-SM, GM, SM	A-2, A-1, A-2-4, A-5	0	9-17	53-82	51-82	39-74	22-45	20-60	NP-10
	3-9	Gravelly loam, gravelly fine sandy loam, cobbly sandy loam, cobbly loamy sand	GM, CL-ML, SM, SC-SM	A-4, A-2	0	7-14	58-85	56-84	49-84	31-58	15-40	NP-10
	9-14	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	GC, SC-SM, SM, CL-ML	A-4, A-2, A-1	0-5	11-53	39-90	36-89	31-88	20-61	15-35	NP-15
	14-25	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	CL, CL-ML, SM, SC-SM	A-4, A-2, A-1	0-7	11-57	43-90	40-89	36-89	24-65	15-30	NP-10
	25-33	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	CL-ML, SM, SC-SM, SC	A-4, A-2, A-1	0-7	20-57	43-84	40-84	34-82	22-57	15-30	NP-10
	33-61	Extremely cobbly loam, very gravelly sandy loam, very flaggy fine sandy loam, very cobbly loamy sand	GC, GC-GM, GP-GM, GM	A-2-6, A-2, A-1, A-4	0-5	26-68	22-76	18-75	14-66	8-43	15-30	NP-15
Rock outcrop.												

Table 15.—Engineering 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	
30E:												
Varilla---------	0-3	Gravelly sandy loam	SM, SC-SM, GM	A-2, A-1, A-2-4, A-5	0	9-17	53-82	51-82	39-74	22-45	20-60	NP-10
	3-9	Gravelly loam, gravelly fine sandy loam, cobbly sandy loam, cobbly loamy sand	SM, CL-ML, GM, SC-SM	A-2, A-4	0	7-14	58-85	56-84	49-84	31-58	15-40	NP-10
	9-14	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	GC, SC-SM, SM, CL-ML	A-4, A-2, A-1	0-5	11-53	39-90	36-89	31-88	20-61	15-35	NP-15
	14-25	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	CL, SM, CL-ML, SC-SM	A-2, A-4, A-1	0-7	11-57	43-90	40-89	36-89	24-65	15-30	NP-10
	25-33	Very cobbly loam, very gravelly sandy loam, flaggy fine sandy loam, extremely cobbly loam	CL-ML, SM, SC-SM, SC	A-4, A-2, A-1	0-7	20-57	43-84	40-84	34-82	22-57	15-30	NP-10
	33-61	Extremely cobbly loam, very gravelly sandy loam, very flaggy fine sandy loam, very cobbly loamy sand	GC-GM, GC, GP-GM, GM	A-2, A-1, A-4, A-2-6	0-5	26-68	22-76	18-75	14-66	8-43	15-30	NP-15
Rock outcrop.												
DAM. Dam												
W. Water												

Table 16.—Physical Soil Properties

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated)

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk	Saturated hydraulic	Available water	Linear extensi- ibility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi- bility grou	Wind erodi- bility (inded)
					dhydr-a	21nductivdr-	capacdr-a							

Tj -76.1999 -.12

Table 16.—Physical Soil Properties—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
4C:														
Cotaco----------	0-12	25-50	30-50	7-27	1.20-1.40	4.00-42.00	0.15-0.21	0.0-2.9	1.0-3.0	.28	.28	3	6	48
	12-39	10-65	10-65	18-35	1.20-1.50	4.00-14.00	0.08-0.22	0.0-2.9	0.0-0.5	.32	.32			
	39-65	10-65	10-65	7-30	1.20-1.50	4.00-14.00	0.05-0.22	0.0-2.9	0.0-0.5	.24	.37			
5B:														
Craigsville----------	0-15	55-80	5-40	5-15	1.20-1.40	14.00-141.00	0.06-0.12	0.0-2.9	1.0-5.0	.20	.20	3	3	86
	15-25	35-80	5-45	5-15	1.30-1.60	14.00-141.00	0.06-0.15	0.0-2.9	0.5-1.0	.10	.28			
	25-60	55-90	2-40	5-10	1.35-1.55	42.00-141.00	0.04-0.09	0.0-2.9	0.5-1.0	.05	.24			
6:														
Dumps, mine-Urban land														
7D:														
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
8C:														
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
Berks----------	0-4	5-40	50-80	5-25	1.20-1.50	4.00-42.00	0.17-0.22	0.0-2.9	2.0-4.0	.37	.43	3	5	56
	4-8	5-45	35-80	5-30	1.20-1.60	4.00-42.00	0.05-0.17	0.0-2.9	0.0-0.5	.37	.55			
	8-23	5-45	35-80	5-30	1.20-1.60	4.00-42.00	0.05-0.11	0.0-2.9	0.0-0.5	.20	.55			
	23-34	10-50	35-75	5-20	1.20-1.60	14.00-42.00	0.04-0.11	0.0-2.9	0.0-0.5	.10	.64			
	34-36	---	---	---	---	1.40-14.00	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
8D:														
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			

Table 16.—Physical Soil Properties—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
8D:														
Berks----------	0-4	5-40	50-80	5-25	1.20-1.50	4.00-42.00	0.17-0.22	0.0-2.9	2.0-4.0	.37	.43	3	5	56
	4-8	5-45	35-80	5-30	1.20-1.60	4.00-42.00	0.05-0.17	0.0-2.9	0.0-0.5	.37	.55			
	8-23	5-45	35-80	5-30	1.20-1.60	4.00-42.00	0.05-0.11	0.0-2.9	0.0-0.5	.20	.55			
	23-34	10-50	35-75	5-20	1.20-1.60	14.00-42.00	0.04-0.11	0.0-2.9	0.0-0.5	.10	.64			
	34-36	---	---	---	---	1.40-14.00	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
8E:														
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
Berks----------	0-4	5-40	50-80	5-25	1.20-1.50	4.00-42.00	0.17-0.22	0.0-2.9	2.0-4.0	.37	.43	3	5	56
	4-8	5-45	35-80	5-30	1.20-1.60	4.00-42.00	0.05-0.17	0.0-2.9	0.0-0.5	.37	.55			
	8-23	5-45	35-80	5-30	1.20-1.60	4.00-42.00	0.05-0.11	0.0-2.9	0.0-0.5	.20	.55			
	23-34	10-50	35-75	5-20	1.20-1.60	14.00-42.00	0.04-0.11	0.0-2.9	0.0-0.5	.10	.64			
	34-36	---	---	---	---	1.40-14.00	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
8F:														
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
Berks----------	0-4	5-40	50-80	5-25	1.20-1.50	4.00-42.00	0.17-0.22	0.0-2.9	2.0-4.0	.37	.43	3	5	56
	4-8	5-45	35-80	5-30	1.20-1.60	4.00-42.00	0.05-0.17	0.0-2.9	0.0-0.5	.37	.55			
	8-23	5-45	35-80	5-30	1.20-1.60	4.00-42.00	0.05-0.11	0.0-2.9	0.0-0.5	.20	.55			
	23-34	10-50	35-75	5-20	1.20-1.60	14.00-42.00	0.04-0.11	0.0-2.9	0.0-0.5	.10	.64			
	34-36	---	---	---	---	1.40-14.00	---	---	---	---	---			
	36-46	---	---	---	---	---	---	---	---	---	---			
9A:														
Grigsby----------	0-11	55-75	10-40	5-20	1.20-1.50	14.10-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.20	.20	5	3	86
	11-32	35-75	10-30	5-18	1.20-1.50	14.10-42.00	0.10-0.19	0.0-2.9	0.2-1.0	.32	.32			
	32-53	55-98	2-40	2-10	1.20-1.50	14.10-42.00	0.03-0.16	0.0-2.9	0.0-0.2	.28	.28			
	53-61	55-98	1-40	1-10	1.20-1.50	14.10-141.00	0.01-0.15	0.0-2.9	0.0-0.1	.05	.10			
10D:														
Highsplint----------	0-3	10-40	55-80	5-20	1.20-1.40	4.00-14.00	0.13-0.20	0.0-2.9	0.5-3.0	.24	.37	5	6	48
	3-59	10-40	35-80	5-30	1.30-1.50	14.00-42.00	0.06-0.17	0.0-2.9	0.0-1.0	.17	.49			
	59-82	10-70	10-80	5-25	1.30-1.60	14.00-42.00	0.04-0.13	0.0-2.9	0.0-0.5	.10	.43			

Table 16.—Physical Soil Properties—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
11E:														
Highsplint----------	0-3	10-40	55-80	5-20	1.20-1.40	4.00-14.00	0.13-0.20	0.0-2.9	0.5-3.0	.24	.37	5	6	48
	3-59	10-40	35-80	5-30	1.30-1.50	14.00-42.00	0.06-0.17	0.0-2.9	0.0-1.0	.17	.49			
	59-82	10-70	10-80	5-25	1.30-1.60	14.00-42.00	0.04-0.13	0.0-2.9	0.0-0.5	.10	.43			
Shelocta----------	0-4	25-50	30-50	7-25	1.15-1.25	4.00-14.00	0.10-0.15	0.0-2.9	1.0-4.0	.17	.28	4	6	48
	4-13	10-50	30-70	7-35	1.15-1.30	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.8	.28	.37			
	13-50	10-50	30-70	18-35	1.30-1.55	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.20	.37			
	50-86	10-50	25-70	7-35	1.30-1.60	4.00-14.00	0.05-0.17	0.0-2.9	0.0-0.5	.15	.37			
11F:														
Highsplint----------	0-3	10-40	55-80	5-20	1.20-1.40	4.00-14.00	0.13-0.20	0.0-2.9	0.5-3.0	.24	.37	5	6	48
	3-59	10-40	35-80	5-30	1.30-1.50	14.00-42.00	0.06-0.17	0.0-2.9	0.0-1.0	.17	.49			
	59-82	10-70	10-80	5-25	1.30-1.60	14.00-42.00	0.04-0.13	0.0-2.9	0.0-0.5	.10	.43			
Shelocta----------	0-4	25-50	30-50	7-25	1.15-1.25	4.00-14.00	0.10-0.15	0.0-2.9	1.0-4.0	.17	.28	4	6	48
	4-13	10-50	30-70	7-35	1.15-1.30	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.8	.28	.37			
	13-50	10-50	30-70	18-35	1.30-1.55	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.20	.37			
	50-86	10-50	25-70	7-35	1.30-1.60	4.00-14.00	0.05-0.17	0.0-2.9	0.0-0.5	.15	.37			
12F:														
Itmann, unstable fill	0-4	40-50	35-50	5-14	1.00-1.30	42.40-141.00	0.10-0.15	0.0-2.9	0.0-0.5	.28	.37	5	6	48
	4-27	35-75	5-50	5-20	1.00-1.30	42.40-141.00	0.02-0.10	0.0-2.9	0.0-0.1	.10	.24			
	27-63	35-75	10-50	5-14	1.00-1.30	42.40-141.00	0.02-0.10	0.0-2.9	0.0-0.1	.10	.24			
13D:														
Kaymine, unstable fill----------	0-4	10-40	50-75	7-20	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.17	.43	5	7	38
	4-28	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.04-0.13	0.0-2.9	0.0-0.1	.10	.43			
	28-64	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.06-0.15	0.0-2.9	0.0-0.1	.10	.43			
14E:														
Kaymine, unstable fill----------	0-4	10-40	50-75	7-20	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.17	.43	5	7	38
	4-28	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.04-0.13	0.0-2.9	0.0-0.1	.10	.43			
	28-64	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.06-0.15	0.0-2.9	0.0-0.1	.10	.43			
Cedarcreek, unstable fill----------	0-3	25-50	30-50	15-27	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28	5	6	0
	3-15	15-65	20-65	15-27	1.35-1.65	4.00-42.00	0.03-0.12	0.0-2.9	0.0-0.1	.10	.32			
	15-65	15-65	20-65	18-27	1.35-1.65	4.00-42.00	0.03-0.12	0.0-2.9	0.0-0.1	.05	.43			
15F:														
Kaymine, unstable fill----------	0-4	10-40	50-75	7-20	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.17	.43	5	7	38
	4-28	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.04-0.13	0.0-2.9	0.0-0.1	.10	.43			
	28-64	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.06-0.15	0.0-2.9	0.0-0.1	.10	.43			

Table 16.—Physical Soil Properties—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
15F:														
Cedarcreek, unstable fill----------	0-3	25-50	30-50	15-27	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28	5	6	0
	3-15	15-65	20-65	15-27	1.35-1.65	4.00-42.00	0.03-0.12	0.0-2.9	0.0-0.1	.10	.32			
	15-65	15-65	20-65	18-27	1.35-1.65	4.00-42.00	0.03-0.12	0.0-2.9	0.0-0.1	.05	.43			
Fiveblock, unstable fill----------	0-6	55-75	10-35	5-18	1.35-1.65	14.00-42.00	0.05-0.07	0.0-2.9	0.0-0.5	.10	.15	5	6	48
	6-25	55-85	5-35	5-18	1.35-1.65	14.00-42.00	0.02-0.08	0.0-2.9	0.0-0.1	.10	.17			
	25-65	55-85	5-35	5-18	1.35-1.65	14.00-42.00	0.00-0.08	0.0-2.9	0.0-0.1	.10	.17			
16C:														
Kaymine, unstable fill----------	0-4	10-40	50-75	7-20	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.17	.43	5	7	38
	4-28	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.04-0.13	0.0-2.9	0.0-0.1	.10	.43			
	28-64	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.06-0.15	0.0-2.9	0.0-0.1	.10	.43			
Fiveblock, unstable fill----------	0-6	55-75	10-35	5-18	1.35-1.65	14.00-42.00	0.05-0.07	0.0-2.9	0.0-0.5	.10	.15	5	6	48
	6-25	55-85	5-35	5-18	1.35-1.65	14.00-42.00	0.02-0.08	0.0-2.9	0.0-0.1	.10	.17			
	25-65	55-85	5-35	5-18	1.35-1.65	14.00-42.00	0.00-0.08	0.0-2.9	0.0-0.1	.10	.17			
Cedarcreek, unstable fill----------	0-3	25-50	30-50	15-27	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28	5	6	0
	3-15	15-65	20-65	15-27	1.35-1.65	4.00-42.00	0.03-0.12	0.0-2.9	0.0-0.1	.10	.32			
	15-65	15-65	20-65	18-27	1.35-1.65	4.00-42.00	0.03-0.12	0.0-2.9	0.0-0.1	.05	.43			
17F:														
Kaymine----------	0-4	10-40	50-75	7-20	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.17	.43	5	7	38
	4-28	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.04-0.13	0.0-2.9	0.0-0.1	.10	.43			
	28-64	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.06-0.15	0.0-2.9	0.0-0.1	.10	.43			
Sewell----------	0-4	55-75	5-40	5-18	1.35-1.65	14.00-42.00	0.08-0.10	0.0-2.9	0.0-0.5	.10	.15	5	5	56
	4-9	35-75	5-50	5-18	1.35-1.65	14.00-42.00	0.03-0.11	0.0-2.9	0.0-0.1	.10	.20			
	9-65	35-75	5-50	5-18	1.35-1.65	14.00-42.00	0.03-0.11	0.0-2.9	0.0-0.1	.10	.17			
Rock outcrop.														
18C:														
Marrowbone----------	0-5	55-75	10-40	4-18	1.20-1.60	14.00-42.00	0.12-0.16	0.0-2.9	0.5-5.0	.24	.28	2	3	86
	5-22	55-75	10-40	2-18	1.20-1.70	14.00-42.00	0.07-0.14	0.0-2.9	0.1-2.0	.17	.28			
	22-33	55-85	2-40	2-15	1.30-1.70	14.00-42.00	0.04-0.14	0.0-2.9	0.0-0.2	.10	.28			
	33-45	---	---	---	---	1.40-14.00	---	---	---	---	---			
	45-55	---	---	---	---	---	---	---	---	---	---			

Table 16.—Physical Soil Properties—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
18C:														
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
18D:														
Marrowbone----------	0-5	55-75	10-40	4-18	1.20-1.60	14.00-42.00	0.12-0.16	0.0-2.9	0.5-5.0	.24	.28	2	3	86
	5-22	55-75	10-40	2-18	1.20-1.70	14.00-42.00	0.07-0.14	0.0-2.9	0.1-2.0	.17	.28			
	22-33	55-85	2-40	2-15	1.30-1.70	14.00-42.00	0.04-0.14	0.0-2.9	0.0-0.2	.10	.28			
	33-45	---	---	---	---	1.40-14.00	---	---	---	---	---			
	45-55	---	---	---	---	---	---	---	---	---	---			
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
18E:														
Marrowbone----------	0-5	55-75	10-40	4-18	1.20-1.60	14.00-42.00	0.12-0.16	0.0-2.9	0.5-5.0	.24	.28	2	3	86
	5-22	55-75	10-40	2-18	1.20-1.70	14.00-42.00	0.07-0.14	0.0-2.9	0.1-2.0	.17	.28			
	22-33	55-85	2-40	2-15	1.30-1.70	14.00-42.00	0.04-0.14	0.0-2.9	0.0-0.2	.10	.28			
	33-45	---	---	---	---	1.40-14.00	---	---	---	---	---			
	45-55	---	---	---	---	---	---	---	---	---	---			
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
18F:														
Marrowbone----------	0-5	55-75	10-40	4-18	1.20-1.60	14.00-42.00	0.12-0.16	0.0-2.9	0.5-5.0	.24	.28	2	3	86
	5-22	55-75	10-40	2-18	1.20-1.70	14.00-42.00	0.07-0.14	0.0-2.9	0.1-2.0	.17	.28			
	22-33	55-85	2-40	2-15	1.30-1.70	14.00-42.00	0.04-0.14	0.0-2.9	0.0-0.2	.10	.28			
	33-45	---	---	---	---	1.40-14.00	---	---	---	---	---			
	45-55	---	---	---	---	---	---	---	---	---	---			

Table 16.—Physical Soil Properties—Continued

									Erosion factors	Wind	Wind

Table 16.—Physical Soil Properties—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
23F:														
Shelocta----------	0-4	25-50	30-50	7-25	1.15-1.25	4.00-14.00	0.10-0.15	0.0-2.9	1.0-4.0	.17	.28	4	6	48
	4-13	10-50	30-70	7-35	1.15-1.30	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.8	.28	.37			
	13-50	10-50	30-70	18-35	1.30-1.55	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.20	.37			
	50-86	10-50	25-70	7-35	1.30-1.60	4.00-14.00	0.05-0.17	0.0-2.9	0.0-0.5	.15	.37			
Cedarcreek, unstable fill----------	0-3	25-50	30-50	15-27	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.10	.28	5	6	0
	3-15	15-65	20-65	15-27	1.35-1.65	4.00-42.00	0.03-0.12	0.0-2.9	0.0-0.1	.10	.32			
	15-65	15-65	20-65	18-27	1.35-1.65	4.00-42.00	0.03-0.12	0.0-2.9	0.0-0.1	.05	.43			
24E:														
Shelocta----------	0-4	25-50	30-50	7-25	1.15-1.25	4.00-14.00	0.10-0.15	0.0-2.9	1.0-4.0	.17	.28	4	6	48
	4-13	10-50	30-70	7-35	1.15-1.30	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.8	.28	.37			
	13-50	10-50	30-70	18-35	1.30-1.55	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.20	.37			
	50-86	10-50	25-70	7-35	1.30-1.60	4.00-14.00	0.05-0.17	0.0-2.9	0.0-0.5	.15	.37			
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
24F:														
Shelocta----------	0-4	25-50	30-50	7-25	1.15-1.25	4.00-14.00	0.10-0.15	0.0-2.9	1.0-4.0	.17	.28	4	6	48
	4-13	10-50	30-70	7-35	1.15-1.30	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.8	.28	.37			
	13-50	10-50	30-70	18-35	1.30-1.55	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.20	.37			
	50-86	10-50	25-70	7-35	1.30-1.60	4.00-14.00	0.05-0.17	0.0-2.9	0.0-0.5	.15	.37			
Gilpin----------	0-3	5-45	50-80	2-25	1.20-1.40	4.00-14.00	0.11-0.20	0.0-2.9	0.5-4.0	.43	.43	3	2	134
	3-5	5-45	35-80	2-25	1.20-1.40	4.00-14.00	0.10-0.20	0.0-2.9	0.5-2.0	.43	.43			
	5-30	5-45	35-80	18-35	1.20-1.50	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.28	.43			
	30-35	5-85	10-80	2-25	1.20-1.50	4.00-14.00	0.02-0.11	0.0-2.9	0.0-0.2	.15	.49			
	35-39	---	---	---	---	4.00-14.00	---	---	---	---	---			
	39-49	---	---	---	---	---	---	---	---	---	---			
25F:														
Shelocta----------	0-4	25-50	30-50	7-25	1.15-1.25	4.00-14.00	0.10-0.15	0.0-2.9	1.0-4.0	.17	.28	4	6	48
	4-13	10-50	30-70	7-35	1.15-1.30	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.8	.28	.37			
	13-50	10-50	30-70	18-35	1.30-1.55	4.00-14.00	0.08-0.20	0.0-2.9	0.0-0.5	.20	.37			
	50-86	10-50	25-70	7-35	1.30-1.60	4.00-14.00	0.05-0.17	0.0-2.9	0.0-0.5	.15	.37			
Kaymine, unstable fill----------	0-4	10-40	50-75	7-20	1.35-1.65	4.00-42.00	0.07-0.11	0.0-2.9	0.0-0.5	.17	.43	5	7	38
	4-28	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.04-0.13	0.0-2.9	0.0-0.1	.10	.43			
	28-64	10-45	30-75	7-25	1.35-1.65	4.00-42.00	0.06-0.15	0.0-2.9	0.0-0.1	.10	.43			

Table 16.—Physical Soil Properties—Continued

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi-bility	Organic matter	Erosion factors Kw	Kf	T	Wind erodi-bility group	Wind erodi-bility index
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
26F:														
Stonecoal, unstable fill----------	0-31	55-85	5-40	4-10	1.00-1.30	14.00-141.00	0.02-0.09	0.0-2.0	0.0-0.5	.10	.24	5	8	0
	31-39	55-85	5-40	4-15	1.00-1.30	14.00-141.00	0.02-0.09	0.0-2.0	0.0-0.5	.10	.28			
	39-68	55-85	5-40	4-10	1.00-1.30	14.00-141.00	0.02-0.09	0.0-2.0	0.0-0.5	.10	.17			
27.														
Udorthents-Urban land														
28.														
Udorthents-Urban land														
29D:														
Varilla----------	0-3	50-80	10-40	5-18	1.00-1.40	14.00-42.00	0.07-0.11	0.0-2.9	1.0-15	.10	.17	3	5	56
	3-9	35-80	10-50	5-18	1.35-1.55	14.00-42.00	0.06-0.16	0.0-2.9	0.5-5.0	.15	.24			
	9-14	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-3.0	.15	.37			
	14-25	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-1.0	.17	.43			
	25-33	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-1.0	.10	.43			
	33-61	35-85	10-40	5-18	1.45-1.65	14.00-42.00	0.02-0.14	0.0-2.9	0.0-0.5	.05	.32			
30D:														
Varilla----------	0-3	50-80	10-40	5-18	1.00-1.40	14.00-42.00	0.07-0.11	0.0-2.9	1.0-15	.10	.17	3	5	56
	3-9	35-80	10-50	5-18	1.35-1.55	14.00-42.00	0.06-0.16	0.0-2.9	0.5-5.0	.15	.24			
	9-14	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-3.0	.15	.37			
	14-25	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-1.0	.17	.43			
	25-33	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-1.0	.10	.43			
	33-61	35-85	10-40	5-18	1.45-1.65	14.00-42.00	0.02-0.14	0.0-2.9	0.0-0.5	.05	.32			
Rock outcrop.														
30E:														
Varilla----------	0-3	50-80	10-40	5-18	1.00-1.40	14.00-42.00	0.07-0.11	0.0-2.9	1.0-15	.10	.17	3	5	56
	3-9	35-80	10-50	5-18	1.35-1.55	14.00-42.00	0.06-0.16	0.0-2.9	0.5-5.0	.15	.24			
	9-14	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-3.0	.15	.37			
	14-25	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-1.0	.17	.43			
	25-33	35-80	10-50	5-18	1.45-1.65	14.00-42.00	0.05-0.16	0.0-2.9	0.0-1.0	.10	.43			
	33-61	35-85	10-40	5-18	1.45-1.65	14.00-42.00	0.02-0.14	0.0-2.9	0.0-0.5	.05	.32			
Rock outcrop.														
DAM.														
Dam														
W.														
Water														

Table 17.—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
	Inches	meq/100 g	meq/100 g	pH
1D:				
Alticrest	0-3	3.0-9.0	2.0-7.0	4.5-5.5
	3-27	2.0-6.0	2.0-4.0	4.5-5.5
	27-30	1.0-4.0	1.0-3.0	4.5-5.5
	30-40	---	---	---
1E:				
Alticrest	0-3	3.0-9.0	2.0-7.0	4.5-5.5
	3-27	2.0-6.0	2.0-4.0	4.5-5.5
	27-30	1.0-4.0	1.0-3.0	4.5-5.5
	30-40	---	---	---
2C:				
Cedarcreek	0-3	4.0-8.0	4.6-13	3.5-5.5
	3-15	4.0-7.0	5.6-13	3.5-5.5
	15-65	5.0-7.0	6.9-13	3.5-5.5
Sewell	0-4	1.0-6.0	0.9-4.2	3.5-5.5
	4-9	1.0-5.0	1.0-4.2	3.5-5.5
	9-65	1.0-5.0	1.0-4.2	3.5-5.5
Rock outcrop.				
3E:				
Cloverlick	0-7	5.0-22	4.0-17	3.5-5.5
	7-10	2.0-11	1.0-8.0	3.6-5.5
	10-44	2.0-7.0	2.0-6.0	3.6-5.5
	44-63	1.0-7.0	1.0-5.0	3.6-5.5
Shelocta	0-4	4.0-15	3.0-11	4.5-5.5
	4-13	2.0-10	1.0-8.0	4.5-5.5
	13-50	5.0-10	1.0-7.0	4.5-5.5
	50-86	2.0-10	1.0-7.0	4.5-5.5
3F:				
Cloverlick	0-7	5.0-22	4.0-17	3.5-5.5
	7-10	2.0-11	1.0-8.0	3.6-5.5
	10-44	2.0-7.0	2.0-6.0	3.6-5.5
	44-63	1.0-7.0	1.0-5.0	3.6-5.5
Shelocta	0-4	4.0-15	3.0-11	4.5-5.5
	4-13	2.0-10	1.0-8.0	4.5-5.5
	13-50	5.0-10	1.0-7.0	4.5-5.5
	50-86	2.0-10	1.0-7.0	4.5-5.5
4C:				
Cotaco	0-12	4.0-14	3.0-10	3.5-5.5
	12-39	5.0-10	3.0-7.0	3.5-5.5
	39-65	2.0-9.0	1.0-7.0	3.5-5.5
5B:				
Craigsville	0-15	4.8-14	---	4.5-6.5
	15-25	4.6-13	---	4.5-6.0
	25-60	4.6-8.9	---	4.5-6.0

Table 17.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction
	Inches	meq/100 g	meq/100 g	pH
6. Dumps, mine-Urban land				
7D:				
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
8C:				
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
Berks	0-4	6.0-15	4.0-11	4.5-6.5
	4-8	1.0-9.0	1.0-7.0	4.5-6.5
	8-23	1.0-9.0	1.0-7.0	4.5-6.5
	23-34	1.0-6.0	1.0-5.0	4.5-6.5
	34-36	---	---	---
	36-46	---	---	---
8D:				
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
Berks	0-4	6.0-15	4.0-11	4.5-6.5
	4-8	1.0-9.0	1.0-7.0	4.5-6.5
	8-23	1.0-9.0	1.0-7.0	4.5-6.5
	23-34	1.0-6.0	1.0-5.0	4.5-6.5
	34-36	---	---	---
	36-46	---	---	---
8E:				
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
Berks	0-4	6.0-15	4.0-11	4.5-6.5
	4-8	1.0-9.0	1.0-7.0	4.5-6.5
	8-23	1.0-9.0	1.0-7.0	4.5-6.5
	23-34	1.0-6.0	1.0-5.0	4.5-6.5
	34-36	---	---	---
	36-46	---	---	---

Table 17.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction
	Inches	meq/100 g	meq/100 g	pH
8F:				
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
Berks	0-4	6.0-15	4.0-11	4.5-6.5
	4-8	1.0-9.0	1.0-7.0	4.5-6.5
	8-23	1.0-9.0	1.0-7.0	4.5-6.5
	23-34	1.0-6.0	1.0-5.0	4.5-6.5
	34-36	---	---	---
	36-46	---	---	---
9A:				
Grigsby	0-11	4.0-12	3.0-9.0	5.6-7.3
	11-32	2.0-7.0	1.0-5.0	5.6-7.3
	32-53	1.0-3.0	1.0-2.0	5.1-7.3
	53-61	1.0-3.0	1.0-2.0	5.1-7.3
10D:				
Highsplint	0-3	2.0-12	2.0-9.0	3.5-6.5
	3-59	1.0-10	1.0-7.0	3.5-5.5
	59-82	1.0-7.0	1.0-6.0	3.5-5.5
11E:				
Highsplint	0-3	2.0-12	2.0-9.0	3.5-6.5
	3-59	1.0-10	1.0-7.0	3.5-5.5
	59-82	1.0-7.0	1.0-6.0	3.5-5.5
Shelocta	0-4	4.0-15	3.0-11	4.5-5.5
	4-13	2.0-10	1.0-8.0	4.5-5.5
	13-50	5.0-10	1.0-7.0	4.5-5.5
	50-86	2.0-10	1.0-7.0	4.5-5.5
11F:				
Highsplint	0-3	2.0-12	2.0-9.0	3.5-6.5
	3-59	1.0-10	1.0-7.0	3.5-5.5
	59-82	1.0-7.0	1.0-6.0	3.5-5.5
Shelocta	0-4	4.0-15	3.0-11	4.5-5.5
	4-13	2.0-10	1.0-8.0	4.5-5.5
	13-50	5.0-10	1.0-7.0	4.5-5.5
	50-86	2.0-10	1.0-7.0	4.5-5.5
12F:				
Itmann, unstable fill	0-4	2.0-5.0	1.0-4.0	3.5-5.5
	4-27	1.0-5.0	1.0-4.0	3.5-5.5
	27-63	1.0-4.0	1.0-3.0	3.5-5.5
13D:				
Kaymine, unstable fill	0-4	2.0-6.0	1.0-5.0	5.6-7.8
	4-28	2.0-7.0	1.0-5.0	5.6-7.8
	28-64	2.0-7.0	1.0-5.0	5.6-7.8

Table 17.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction
	Inches	meq/100 g	meq/100 g	pH
14E:				
Kaymine, unstable fill	0-4	2.0-6.0	1.0-5.0	5.6-7.8
	4-28	2.0-7.0	1.0-5.0	5.6-7.8
	28-64	2.0-7.0	1.0-5.0	5.6-7.8
Cedarcreek, unstable fill	0-3	4.0-8.0	4.6-13	3.5-5.5
	3-15	4.0-7.0	5.6-13	3.5-5.5
	15-65	5.0-7.0	6.9-13	3.5-5.5
15F:				
Kaymine, unstable fill	0-4	2.0-6.0	1.0-5.0	5.6-7.8
	4-28	2.0-7.0	1.0-5.0	5.6-7.8
	28-64	2.0-7.0	1.0-5.0	5.6-7.8
Cedarcreek, unstable fill	0-3	4.0-8.0	4.6-13	3.5-5.5
	3-15	4.0-7.0	5.6-13	3.5-5.5
	15-65	5.0-7.0	6.9-13	3.5-5.5
Fiveblock, unstable fill	0-6	1.0-6.0	1.0-4.0	5.6-7.8
	6-25	1.0-5.0	1.0-4.0	5.6-7.8
	25-65	1.0-5.0	1.0-4.0	5.6-7.8
16C:				
Kaymine, unstable fill	0-4	2.0-6.0	1.0-5.0	5.6-7.8
	4-28	2.0-7.0	1.0-5.0	5.6-7.8
	28-64	2.0-7.0	1.0-5.0	5.6-7.8
Fiveblock, unstable fill	0-6	1.0-6.0	1.0-4.0	5.6-7.8
	6-25	1.0-5.0	1.0-4.0	5.6-7.8
	25-65	1.0-5.0	1.0-4.0	5.6-7.8
Cedarcreek, unstable fill	0-3	4.0-8.0	4.6-13	3.5-5.5
	3-15	4.0-7.0	5.6-13	3.5-5.5
	15-65	5.0-7.0	6.9-13	3.5-5.5
17F:				
Kaymine	0-4	2.0-6.0	1.0-5.0	5.6-7.8
	4-28	2.0-7.0	1.0-5.0	5.6-7.8
	28-64	2.0-7.0	1.0-5.0	5.6-7.8
Sewell	0-4	1.0-6.0	0.9-4.2	3.5-5.5
	4-9	1.0-5.0	1.0-4.2	3.5-5.5
	9-65	1.0-5.0	1.0-4.2	3.5-5.5
Rock outcrop.				
18C:				
Marrowbone	0-5	2.0-16	2.0-12	4.5-6.0
	5-22	1.0-9.0	1.0-7.0	4.5-6.0
	22-33	1.0-4.0	1.0-3.0	4.5-6.0
	33-45	---	---	---
	45-55	---	---	---

Table 17.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction
	Inches	meq/100 g	meq/100 g	pH
18C:				
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
18D:				
Marrowbone	0-5	2.0-16	2.0-12	4.5-6.0
	5-22	1.0-9.0	1.0-7.0	4.5-6.0
	22-33	1.0-4.0	1.0-3.0	4.5-6.0
	33-45	---	---	---
	45-55	---	---	---
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
18E:				
Marrowbone	0-5	2.0-16	2.0-12	4.5-6.0
	5-22	1.0-9.0	1.0-7.0	4.5-6.0
	22-33	1.0-4.0	1.0-3.0	4.5-6.0
	33-45	---	---	---
	45-55	---	---	---
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
18F:				
Marrowbone	0-5	2.0-16	2.0-12	4.5-6.0
	5-22	1.0-9.0	1.0-7.0	4.5-6.0
	22-33	1.0-4.0	1.0-3.0	4.5-6.0
	33-45	---	---	---
	45-55	---	---	---
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
19F:				
Matewan	0-4	2.0-10	1.0-7.0	3.5-6.0
	4-21	1.0-6.0	1.0-4.0	3.5-5.5
	21-38	1.0-5.0	1.0-4.0	3.5-5.5
	38-48	---	---	---

Table 17.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction
	Inches	meq/100 g	meq/100 g	pH
19F:				
Gilpin----------	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
Rock outcrop.				
20A:				
Philo----------	0-8	5.0-14	4.0-10	4.5-6.0
	8-62	3.0-7.0	2.0-5.0	4.5-6.0
21F:				
Ramsey----------	0-5	---	0.5-2.5	4.5-5.5
	5-17	---	0.5-2.8	4.5-5.5
	17-27	---	---	---
Alticrest----------	0-3	3.0-9.0	2.0-7.0	4.5-5.5
	3-27	2.0-6.0	2.0-4.0	4.5-5.5
	27-30	1.0-4.0	1.0-3.0	4.5-5.5
	30-40	---	---	---
Rock outcrop.				
22E:				
Sewell, unstable fill	0-4	1.0-6.0	0.9-4.2	3.5-5.5
	4-9	1.0-5.0	1.0-4.2	3.5-5.5
	9-65	1.0-5.0	1.0-4.2	3.5-5.5
22F:				
Sewell, unstable fill	0-4	1.0-6.0	0.9-4.2	3.5-5.5
	4-9	1.0-5.0	1.0-4.2	3.5-5.5
	9-65	1.0-5.0	1.0-4.2	3.5-5.5
23F:				
Shelocta----------	0-4	4.0-15	3.0-11	4.5-5.5
	4-13	2.0-10	1.0-8.0	4.5-5.5
	13-50	5.0-10	1.0-7.0	4.5-5.5
	50-86	2.0-10	1.0-7.0	4.5-5.5
Cedarcreek, unstable fill----------	0-3	4.0-8.0	4.6-13	3.5-5.5
	3-15	4.0-7.0	5.6-13	3.5-5.5
	15-65	5.0-7.0	6.9-13	3.5-5.5
24E:				
Shelocta----------	0-4	4.0-15	3.0-11	4.5-5.5
	4-13	2.0-10	1.0-8.0	4.5-5.5
	13-50	5.0-10	1.0-7.0	4.5-5.5
	50-86	2.0-10	1.0-7.0	4.5-5.5
Gilpin----------	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---

Table 17.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction
	Inches	meq/100 g	meq/100 g	pH
24F:				
Shelocta	0-4	4.0-15	3.0-11	4.5-5.5
	4-13	2.0-10	1.0-8.0	4.5-5.5
	13-50	5.0-10	1.0-7.0	4.5-5.5
	50-86	2.0-10	1.0-7.0	4.5-5.5
Gilpin	0-3	2.0-15	1.0-11	3.6-5.5
	3-5	2.0-11	1.0-8.0	3.6-5.5
	5-30	4.0-10	3.0-7.0	3.6-5.5
	30-35	1.0-7.0	1.0-5.0	3.6-5.5
	35-39	---	---	---
	39-49	---	---	---
25F:				
Shelocta	0-4	4.0-15	3.0-11	4.5-5.5
	4-13	2.0-10	1.0-8.0	4.5-5.5
	13-50	5.0-10	1.0-7.0	4.5-5.5
	50-86	2.0-10	1.0-7.0	4.5-5.5
Kaymine, unstable fill	0-4	2.0-6.0	1.0-5.0	5.6-7.8
	4-28	2.0-7.0	1.0-5.0	5.6-7.8
	28-64	2.0-7.0	1.0-5.0	5.6-7.8
26F:				
Stonecoal, unstable fill	0-31	1.0-3.6	0.8-2.7	5.6-9.0
	31-39	1.0-4.9	0.8-3.7	5.6-9.0
	39-68	1.0-3.6	0.8-2.7	5.6-9.0
27:				
Udorthents-Urban land				
28.				
Udorthents-Urban land				
29D:				
Varilla	0-3	---	0.7-3.3	3.5-5.5
	3-9	---	1.5-23	3.5-5.5
	9-14	---	0.8-4.2	3.5-5.5
	14-25	---	0.9-4.2	3.5-5.5
	25-33	---	0.9-4.2	3.5-5.5
	33-61	---	0.9-4.2	3.5-5.5
30D:				
Varilla	0-3	---	0.7-3.3	3.5-5.5
	3-9	---	1.5-23	3.5-5.5
	9-14	---	0.8-4.2	3.5-5.5
	14-25	---	0.9-4.2	3.5-5.5
	25-33	---	0.9-4.2	3.5-5.5
	33-61	---	0.9-4.2	3.5-5.5
Rock outcrop.				

Table 17.—Chemical Soil Properties—Continued

Map symbol and soil name	Depth	Cation-exchange capacity	Effective cation-exchange capacity	Soil reaction
	Inches	meq/100 g	meq/100 g	pH
30E:				
Varilla----------	0-3	---	0.7-3.3	3.5-5.5
	3-9	---	1.5-23	3.5-5.5
	9-14	---	0.8-4.2	3.5-5.5
	14-25	---	0.9-4.2	3.5-5.5
	25-33	---	0.9-4.2	3.5-5.5
	33-61	---	0.9-4.2	3.5-5.5
Rock outcrop.				
DAM.				
Dam				
W.				
Water				

Table 18.—Water Features

(Depths of layers are in feet. See text for definitions of terms used in this table. 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	Hydrologic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
				Ft	Ft	Ft				
1D:										
Alticrest	B	Very high	Jan-Dec	---	---	---	---	None	---	None
1E:										
Alticrest	B	Very high	Jan-Dec	---	---	---	---	None	---	None
2C:										
Cedarcreek	C	Medium	Jan-Dec	---	---	---	---	None	---	None
Sewell	C	Low	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	---	Jan-Dec	---	---	---	---	None	---	None
3E:										
Cloverlick	B	High	Jan-Dec	---	---	---	---	None	---	None
Shelocta	B	High	Jan-Dec	---	---	---	---	None	---	None
3F:										
Cloverlick	B	High	Jan-Dec	---	---	---	---	None	---	None
Shelocta	B	High	Jan-Dec	---	---	---	---	None	---	None
4C:										
Cotaco	C	Medium	Jan-May	1.5-2.5	>6.0	---	---	None	---	None
			Jun	2.5-6.6	>6.0	---	---	None	---	None
			Jul-Sep	---	---	---	---	None	---	None
			Oct	2.5-6.6	>6.0	---	---	None	---	None
			Nov-Dec	1.5-2.5	>6.0	---	---	None	---	None
5B:										
Craigsville	B	Very low	Jan-May	---	---	---	---	None	Very brief	Frequent
			Jun-Oct	---	---	---	---	None	---	---
			Nov-Dec	---	---	---	---	None	Very brief	Frequent
6:										
Dumps, mine.										
Urban land	---	---	Jan-Dec	---	---	---	---	None	---	None
7D:										
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None

Table 18.—Water Features—Continued

Map symbol and soil name	Hydro-logic group	Surface runoff	Month	Water table: Upper limit	Water table: Lower limit	Ponding: Surface water depth	Ponding: Duration	Ponding: Frequency	Flooding: Duration	Flooding: Frequency
				Ft	Ft	Ft				
8C:										
Gilpin	C	Medium	Jan-Dec	---	---	---	---	None	---	None
Berks	C	Medium	Jan-Dec	---	---	---	---	None	---	None
8D:										
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None
Berks	C	High	Jan-Dec	---	---	---	---	None	---	None
8E:										
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None
Berks	C	High	Jan-Dec	---	---	---	---	None	---	None
8F:										
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None
Berks	C	High	Jan-Dec	---	---	---	---	None	---	None
9A:										
Grigsby	B	Very low	Jan-Apr	3.5-6.6	>6.0	---	---	None	Very brief	Occasional
			May	4.3-6.6	>6.0	---	---	None	Very brief	Occasional
			Jun-Oct	---	---	---	---	None	---	---
			Nov	4.3-6.6	>6.0	---	---	None	Very brief	Occasional
			Dec	3.5-6.6	>6.0	---	---	None	Very brief	Occasional
10D:										
Highsplint	B	High	Jan-Dec	---	---	---	---	None	---	None
11E:										
Highsplint	B	High	Jan-Dec	---	---	---	---	None	---	None
Shelocta	B	High	Jan-Dec	---	---	---	---	None	---	None
11F:										
Highsplint	B	High	Jan-Dec	---	---	---	---	None	---	None
Shelocta	B	High	Jan-Dec	---	---	---	---	None	---	None
12F:										
Itmann	C	Medium	Jan-Dec	---	---	---	---	None	---	None
13D:										
Kaymine	C	High	Jan-Dec	---	---	---	---	None	---	None

Table 18.—Water Features—Continued

Map symbol and soil name	Hydro-logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
				Ft	Ft	Ft				
14E:										
Kaymine	C	High	Jan-Dec	---	---	---	---	None	---	None
Cedarcreek	C	High	Jan-Dec	---	---	---	---	None	---	None
15F:										
Kaymine	C	High	Jan-Dec	---	---	---	---	None	---	None
Cedarcreek	C	High	Jan-Dec	---	---	---	---	None	---	None
Fiveblock	C	Medium	Jan-Dec	---	---	---	---	None	---	None
16C:										
Kaymine	C	Medium	Jan-Dec	---	---	---	---	None	---	None
Fiveblock	C	Low	Jan-Dec	---	---	---	---	None	---	None
Cedarcreek	C	Medium	Jan-Dec	---	---	---	---	None	---	None
17F:										
Kaymine	C	High	Jan-Dec	---	---	---	---	None	---	None
Sewell	C	Medium	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	---	Jan-Dec	---	---	---	---	None	---	None
18C:										
Marrowbone	C	Medium	Jan-Dec	---	---	---	---	None	---	None
Gilpin	C	Medium	Jan-Dec	---	---	---	---	None	---	None
18D:										
Marrowbone	C	High	Jan-Dec	---	---	---	---	None	---	None
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None
18E:										
Marrowbone	C	High	Jan-Dec	---	---	---	---	None	---	None
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None
18F:										
Marrowbone	C	High	Jan-Dec	---	---	---	---	None	---	None
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None

Table 18.—Water Features—Continued

Map symbol and soil name	Hydro-logic group	Surface runoff	Month	Water table: Upper limit	Water table: Lower limit	Ponding: Surface water depth	Ponding: Duration	Ponding: Frequency	Flooding: Duration	Flooding: Frequency
				Ft	Ft	Ft				
19F:										
Matewan	B	Very high	Jan-Dec	---	---	---	---	None	---	None
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	---	Jan-Dec	---	---	---	---	None	---	None
20A:										
Philo	B	Very low	Jan-May	1.5-3.0	>6.0	---	---	None	Very brief	Occasional
			Jun	3.0-6.6	>6.0	---	---	None	---	---
			Jul-Sep	---	---	---	---	None	---	---
			Oct	3.0-6.6	>6.0	---	---	None	---	---
			Nov-Dec	1.5-3.0	>6.0	---	---	None	Very brief	Occasional
21F:										
Ramsey	D	Very high	Jan-Dec	---	---	---	---	None	---	None
Alticrest	B	Very high	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop	---	---	Jan-Dec	---	---	---	---	None	---	None
22E:										
Sewell	C	Medium	Jan-Dec	---	---	---	---	None	---	None
22F:										
Sewell	C	Medium	Jan-Dec	---	---	---	---	None	---	None
23F:										
Shelocta	B	High	Jan-Dec	---	---	---	---	None	---	None
Cedarcreek	C	High	Jan-Dec	---	---	---	---	None	---	None
24E:										
Shelocta	B	High	Jan-Dec	---	---	---	---	None	---	None
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None
24F:										
Shelocta	B	High	Jan-Dec	---	---	---	---	None	---	None
Gilpin	C	High	Jan-Dec	---	---	---	---	None	---	None
25F:										
Shelocta	B	High	Jan-Dec	---	---	---	---	None	---	None
Kaymine	C	High	Jan-Dec	---	---	---	---	None	---	None

Table 18.—Water Features—Continued

Map symbol and soil name	Hydro-logic group	Surface runoff	Month	Water table		Ponding			Flooding	
				Upper limit	Lower limit	Surface water depth	Duration	Frequency	Duration	Frequency
				Ft	Ft	Ft				
26F:										
Stonecoal----------	C	Medium	Jan-Dec	---	---	---	---	None	---	None
27:										
Udorthents----------	---	---	Jan-Dec	---	---	---	---	None	---	None
Urban land----------	---	---	Jan-Dec	---	---	---	---	None	---	None
28:										
Udorthents----------	---	---	Jan-Dec	---	---	---	---	None	Very brief	Occasional
Urban land----------	---	---	Jan-Dec	---	---	---	---	None	Very brief	Occasional
29D:										
Varilla----------	B	Medium	Jan-Dec	---	---	---	---	None	---	None
30D:										
Varilla----------	B	Medium	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop----------	---	---	Jan-Dec	---	---	---	---	None	---	None
30E:										
Varilla----------	B	Medium	Jan-Dec	---	---	---	---	None	---	None
Rock outcrop----------	---	---	Jan-Dec	---	---	---	---	None	---	None
DAM.										
Dam										
W.										
Water										

Table 19.—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				
1D:						
Alticrest	Lithic bedrock	20-40	Indurated	Low	Low	High
1E:						
Alticrest	Lithic bedrock	20-40	Indurated	Low	Low	High
2C:						
Cedarcreek	---	---	---	Moderate	Moderate	High
Sewell	---	---	---	Moderate	Moderate	High
Rock outcrop	Lithic bedrock	0-0	Indurated	None	---	---
3E:						
Cloverlick	---	---	---	Moderate	Low	High
Shelocta	---	---	---	Moderate	Low	High
3F:						
Cloverlick	---	---	---	Moderate	Low	High
Shelocta	---	---	---	Moderate	Low	High
4C:						
Cotaco	---	---	---	Moderate	Moderate	High
5B:						
Craigsville	---	---	---	Moderate	Low	Moderate
6.						
Dumps, mine-Urban land						
7D:						
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
8C:						
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
Berks	Paralithic bedrock	20-40	Weakly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Very strongly cemented			
8D:						
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
Berks	Paralithic bedrock	20-40	Weakly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Very strongly cemented			

Table 19.—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				
8E:						
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
Berks	Paralithic bedrock	20-40	Weakly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Very strongly cemented			
8F:						
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
Berks	Paralithic bedrock	20-40	Weakly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Very strongly cemented			
9A:						
Grigsby	---	---	---	None	Low	Low
10D:						
Highsplint	---	---	---	Moderate	Low	High
11E:						
Highsplint	---	---	---	Moderate	Low	High
Shelocta	---	---	---	Moderate	Low	High
11F:						
Highsplint	---	---	---	Moderate	Low	High
Shelocta	---	---	---	Moderate	Low	High
12F:						
Itmann, unstable fill	---	---	---	None	High	High
13D:						
Kaymine, unstable fill	---	---	---	Moderate	Low	Low
14E:						
Kaymine, unstable fill	---	---	---	Moderate	Low	Low
Cedarcreek, unstable fill	---	---	---	Moderate	Moderate	High
15F:						
Kaymine, unstable fill	---	---	---	Moderate	Low	Low
Cedarcreek, unstable fill	---	---	---	Moderate	Moderate	High
Fiveblock, unstable fill	---	---	---	Moderate	Low	Low

Table 19.—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				
16C:						
Kaymine, unstable fill	---	---	---	Moderate	Low	Low
Fiveblock, unstable fill	---	---	---	Moderate	Low	Low
Cedarcreek, unstable fill	---	---	---	Moderate	Moderate	High
17F:						
Kaymine	---	---	---	Moderate	Low	Low
Sewell	---	---	---	Moderate	Moderate	High
Rock outcrop	Lithic bedrock	0-0	Indurated	None	---	---
18C:						
Marrowbone	Paralithic bedrock	20-40	Moderately cemented	Low	Low	Moderate
	Lithic bedrock	20-50	Indurated			
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
18D:						
Marrowbone	Paralithic bedrock	20-40	Moderately cemented	Low	Low	Moderate
	Lithic bedrock	20-50	Indurated			
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
18E:						
Marrowbone	Paralithic bedrock	20-40	Moderately cemented	Low	Low	Moderate
	Lithic bedrock	20-50	Indurated			
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
18F:						
Marrowbone	Paralithic bedrock	20-40	Moderately cemented	Low	Low	Moderate
	Lithic bedrock	20-50	Indurated			
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
19F:						
Matewan	Lithic bedrock	20-40	Indurated	Low	Low	High
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
Rock outcrop	Lithic bedrock	0-0	Indurated	---	---	---

Table 19.—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				
20A:						
Philo	---	---	---	Moderate	Low	High
21F:						
Ramsey	Lithic bedrock	10-20	Indurated	Moderate	Low	Moderate
Alticrest	Lithic bedrock	20-40	Indurated	Moderate	Low	High
Rock outcrop	Lithic bedrock	0-0	Indurated	None	---	---
22E:						
Sewell, unstable fill	---	---	---	Moderate	Moderate	High
22F:						
Sewell, unstable fill	---	---	---	Moderate	Moderate	High
23F:						
Shelocta	---	---	---	Moderate	Low	High
Cedarcreek, unstable fill	---	---	---	Moderate	Moderate	High
24E:						
Shelocta	---	---	---	Moderate	Low	High
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
24F:						
Shelocta	---	---	---	Moderate	Low	High
Gilpin	Paralithic bedrock	20-40	Very strongly cemented	Moderate	Low	High
	Lithic bedrock	20-40	Indurated			
25F:						
Shelocta	---	---	---	Moderate	Low	High
Kaymine, unstable fill	---	---	---	Moderate	Low	Low
26F:						
Stonecoal, unstable fill	---	---	---	None	High	High
27:						
Udorthents	---	---	---	None	---	---
Urban land.						
28:						
Udorthents	---	---	---	None	---	---
Urban land.						
29D:						
Varilla	---	---	---	Moderate	Low	High

Table 19.—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				
30D:						
Varilla	---	---	---	Moderate	Low	High
Rock outcrop	---	---	---	None	---	---
30E:						
Varilla	---	---	---	Moderate	Low	High
Rock outcrop	---	---	---	None	---	---
DAM.						
Dam						
W.						
Water						

Table 20.—Taxonomic Classification of the Soils

Soil name	Family or higher taxonomic class
Alticrest	Coarse-loamy, siliceous, semiactive, mesic Typic Dystrudepts
Berks	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Cedarcreek	Loamy-skeletal, mixed, active, acid, mesic Typic Udorthents
Cloverlick	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Cotaco	Fine-loamy, mixed, semiactive, mesic Aquic Hapludults
Craigsville	Loamy-skeletal, mixed, superactive, mesic Fluventic Dystrudepts
Fiveblock	Loamy-skeletal, mixed, semiactive, nonacid, mesic Typic Udorthents
Gilpin	Fine-loamy, mixed, active, mesic Typic Hapludults
Grigsby	Coarse-loamy, mixed, active, mesic Dystric Fluventic Eutrudepts
Highsplint	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Itmann	Loamy-skeletal, mixed, semiactive, acid, mesic Typic Udorthents
Kaymine	Loamy-skeletal, mixed, active, nonacid, mesic Typic Udorthents
Marrowbone	Coarse-loamy, mixed, semiactive, mesic Typic Dystrudepts
Matewan	Loamy-skeletal, mixed, active, mesic Typic Dystrudepts
Philo	Coarse-loamy, mixed, active, mesic Fluvaquentic Dystrudepts
Ramsey	Loamy, siliceous, subactive, mesic Lithic Dystrudepts
Sewell	Loamy-skeletal, mixed, semiactive, acid, mesic Typic Udorthents
Shelocta	Fine-loamy, mixed, active, mesic Typic Hapludults
Stonecoal	Loamy-skeletal, mixed, semiactive, nonacid, mesic Typic Udorthents
Udorthents	Udorthents
Varilla	Loamy-skeletal, siliceous, semiactive, mesic Typic Dystrudepts

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