

Soil Susceptibility to Compaction—Bedford County, Virginia

The map displays soil susceptibility contours over a topographic base. A prominent red-shaded area, labeled "[unnamed]", is situated in the central-left portion of the mapped area. The surrounding terrain is characterized by yellow-green shading, indicating varying levels of soil susceptibility. Numerous alphanumeric codes (e.g., 2xx60, 2vy6s, 2xx71, 2xx5z, 2xx6k, 2xx6l, 2xx6r, 2xx6j, 2xx6q, 2xx6b, 2xx6c, 2xx6d, 2xx6e, 2xx6f, 2xx6g, 2xx6h, 2xx6i, 2xx6m, 2xx6n, 2xx6o, 2xx6p, 2xx6q, 2xx6r, 2xx6s, 2xx6t, 2xx6u, 2xx6v, 2xx6w, 2xx6x, 2xx6y, 2xx6z, 2xx70, 2xx71, 2xx72, 2xx73, 2xx74, 2xx75, 2xx76, 2xx77, 2xx78, 2xx79, 2xx80, 2xx81, 2xx82, 2xx83, 2xx84, 2xx85, 2xx86, 2xx87, 2xx88, 2xx89, 2xx90, 2xx91, 2xx92, 2xx93, 2xx94, 2xx95, 2xx96, 2xx97, 2xx98, 2xx99, 2xxx00, 2xxx01, 2xxx02, 2xxx03, 2xxx04, 2xxx05, 2xxx06, 2xxx07, 2xxx08, 2xxx09, 2xxx10, 2xxx11, 2xxx12, 2xxx13, 2xxx14, 2xxx15, 2xxx16, 2xxx17, 2xxx18, 2xxx19, 2xxx20, 2xxx21, 2xxx22, 2xxx23, 2xxx24, 2xxx25, 2xxx26, 2xxx27, 2xxx28, 2xxx29, 2xxx30, 2xxx31, 2xxx32, 2xxx33, 2xxx34, 2xxx35, 2xxx36, 2xxx37, 2xxx38, 2xxx39, 2xxx40, 2xxx41, 2xxx42, 2xxx43, 2xxx44, 2xxx45, 2xxx46, 2xxx47, 2xxx48, 2xxx49, 2xxx50, 2xxx51, 2xxx52, 2xxx53, 2xxx54, 2xxx55, 2xxx56, 2xxx57, 2xxx58, 2xxx59, 2xxx60, 2xxx61, 2xxx62, 2xxx63, 2xxx64, 2xxx65, 2xxx66, 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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Background

 Aerial Photography

Soils

Soil Rating Polygons

 High
 Medium
 Low
 Not rated or not available

Soil Rating Lines

 High
 Medium
 Low
 Not rated or not available

Soil Rating Points

 High
 Medium
 Low
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bedford County, Virginia
 Survey Area Data: Version 16, Jun 3, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2011—Mar 26, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Soil Susceptibility to Compaction

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
2vy6s	Clifford fine sandy loam, 7 to 15 percent slopes	Medium	Clifford (95%)	Rock fragments, 0-12 inches (1.00)	134.3	11.6%
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
				Bulk density-compactibility to 30cm (0.75)		
2xx5x	Clifford fine sandy loam, 2 to 7 percent slopes	Medium	Clifford (80%)	Soil texture, 0-12 inches (1.00)	325.1	28.0%
				Rock fragments, 0-12 inches (1.00)		
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
2xx5y	Codorus loam, 0 to 2 percent slopes, occasionally flooded	Medium	Codorus, occasionally flooded (75%)	Soil texture, 0-12 inches (1.00)	22.6	1.9%
				Rock fragments, 0-12 inches (1.00)		
				Soil structure grade, 0-12 inches (1.00)		
				Subaerial (1.00)		
				Organic matter content, 0-30 cm (0.82)		
			Hatboro, frequently flooded (5%)	Soil texture, 0-12 inches (1.00)		
				Rock fragments, 0-12 inches (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Soil structure grade, 0-12 inches (1.00)		
				Subaerial (1.00)		
				Organic matter content, 0-30 cm (0.56)		
2xx5z	Minnieville loam, 2 to 7 percent slopes	Medium	Minnieville (75%)	Soil texture, 0-12 inches (1.00)	102.8	8.9%
				Rock fragments, 0-12 inches (1.00)		
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
2xx60	Minnieville loam, 7 to 15 percent slopes	Medium	Minnieville (75%)	Soil texture, 0-12 inches (1.00)	209.7	18.1%
				Rock fragments, 0-12 inches (1.00)		
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
2xx61	Minnieville loam, 15 to 25 percent slopes	Medium	Minnieville (75%)	Soil texture, 0-12 inches (1.00)	12.1	1.0%
				Rock fragments, 0-12 inches (1.00)		
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
2xx63	Huddleston fine sandy loam, 15 to 25 percent slopes	Medium	Huddleston (80%)	Rock fragments, 0-12 inches (1.00)	8.6	0.7%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
				Bulk density-compactibility to 30cm (0.81)		
2xx68	Jackland fine sandy loam, 2 to 7 percent slopes	Medium	Jackland (80%)	Soil texture, 0-12 inches (1.00)	11.4	1.0%
				Rock fragments, 0-12 inches (1.00)		
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
2xx6b	Poplar Forest sandy clay loam, 15 to 25 percent slopes, severely eroded	Medium	Poplar Forest, severely eroded (75%)	Rock fragments, 0-12 inches (1.00)	72.3	6.2%
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
				Bulk density-compactibility to 30cm (0.68)		
2xx6j	Oak Level loam, 2 to 7 percent slopes	Medium	Oak Level (75%)	Rock fragments, 0-12 inches (1.00)	12.0	1.0%
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
				Bulk density-compactibility to 30cm (0.66)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
2xx6k	Oak Level loam, 7 to 15 percent slopes	Medium	Oak Level (75%)	Rock fragments, 0-12 inches (1.00)	72.7	6.3%
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
				Bulk density-compactibility to 30cm (0.66)		
2xx6l	Oak Level loam, 15 to 25 percent slopes	Medium	Oak Level (80%)	Rock fragments, 0-12 inches (1.00)	21.9	1.9%
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
				Bulk density-compactibility to 30cm (0.66)		
2xx6q	Spriggs fine sandy loam, 7 to 15 percent slopes	Medium	Spriggs (75%)	Rock fragments, 0-12 inches (1.00)	26.0	2.2%
				Soil structure grade, 0-12 inches (1.00)		
				Bulk density-compactibility to 30cm (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
2xx6r	Spriggs fine sandy loam, 15 to 25 percent slopes	Medium	Spriggs (85%)	Rock fragments, 0-12 inches (1.00)	51.7	4.5%
				Soil structure grade, 0-12 inches (1.00)		
				Bulk density-compactibility to 30cm (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
2xx71	Wintergreen fine sandy loam, 2 to 7 percent slopes	High	Wintergreen (80%)	Soil texture, 0-12 inches (1.00)	26.8	2.3%
				Rock fragments, 0-12 inches (1.00)		
				Soil structure grade, 0-12 inches (1.00)		
				Bulk density-compactibility to 30cm (1.00)		
				Organic matter content, 0-30 cm (1.00)		
2xx74	Casville fine sandy loam, 2 to 7 percent slopes	Medium	Casville (80%)	Rock fragments, 0-12 inches (1.00)	39.7	3.4%
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
				Bulk density-compactibility to 30cm (0.56)		
2xx75	Casville fine sandy loam, 7 to 15 percent slopes	Medium	Casville (75%)	Rock fragments, 0-12 inches (1.00)	9.6	0.8%
				Soil structure grade, 0-12 inches (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
				Bulk density-compactibility to 30cm (0.56)		
2xx76	Devotion fine sandy loam, 15 to 25 percent slopes	Medium	Devotion (75%)	Rock fragments, 0-12 inches (1.00)	0.4	0.0%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Soil structure grade, 0-12 inches (1.00)		
				Bulk density-compactibility to 30cm (1.00)		
				Organic matter content, 0-30 cm (1.00)		
				Subaerial (1.00)		
Totals for Area of Interest					1,159.9	100.0%

Rating	Acres in AOI	Percent of AOI
Medium	1,133.1	97.7%
High	26.8	2.3%
Totals for Area of Interest	1,159.9	100.0%

Description

Soils are rated based on their susceptibility to compaction from the operation of ground-based equipment for planting, harvesting, and site preparation activities when soils are moist. Soil compaction is the process in which soil particles are pressed together more closely than in the original state. Typically, the soil must be moist to be compacted because the mineral grains must slide together. Compaction reduces the abundance mostly of large pores in the soil by damaging the structure of the soil. This produces several effects that are unwanted in agricultural soils since large pores are most effective at transmitting water and air through the soil. Compaction also increases the soil strength which can limit root penetration and growth. The ability of soil to hold water is adversely affected by compaction since the large pores hold water. The degree of compaction of a soil is measured by its bulk density, which is the mass per unit volume, generally expressed in grams per cubic centimeter.

Compacted soils are less favorable for good plant growth because of high soil bulk density and hardness, reduced pore space, and poor aeration and drainage. Root penetration and growth is decreased in compacted soils because the hardness or strength of these soils prevents the expansion of roots. Supplies of air, water, and nutrients that roots need are also less favorable when compaction decreases soil porosity and drainage.

Interpretation ratings are based on soil properties in the upper 12 inches of the profile. Factors considered are soil texture, soil organic matter content, soil structure, rock fragment content, and the existing bulk density. Each of these is thought to contribute to resisting the susceptibility of a soil to compaction when present. Organic matter in the soil provides resistance to compaction and the resilience to ameliorate the effects with time. Soil structure adds strength as discrete aggregates and it is the aggregates that are deformed or destroyed by compactive forces, thus strong soil structure lowers the susceptibility to compaction. Similarly, rock fragments in the soil can bridge and provide a framework to resist compaction. Finally, if a soil is already fairly dense causing further compaction is more difficult.

Definitions of the ratings:

Low - The potential for compaction is insignificant. This soil is able to support standard equipment with minimal compaction. The soil is moisture insensitive, exhibiting only small changes in density with changing moisture content.

Medium - The potential for compaction is significant. The growth rate of seedlings may be reduced following compaction. After the initial compaction (i.e., the first equipment pass), this soil is able to support standard equipment with only minimal increases in soil density. The soil is intermediate between moisture insensitive and moisture sensitive.

High - The potential for compaction is significant. The growth rate of seedlings will be reduced following compaction. After initial compaction, this soil is still able to support standard equipment, but will continue to compact with each

subsequent pass. The soil is moisture sensitive, exhibiting large changes in density with changing moisture content.

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

References:

Adams, P.W. 1998. Soil Compaction on Woodland Properties. Oregon State University Extension Publication EC 1109.

Adams, P.W. 1981. Compaction of Forest Soils. Oregon State University Extension Publication PNW 217.

Boyer, Don. 1997. Guidelines for Soil Resource Protection and Restoration for Timber Harvest and Post-Harvest Activities. U.S Forest Service, Pacific Northwest Region, Watershed Management.

Geist, J.M.; Hazard, J.W.; Seidel, K.W. 1989. Assessing Physical Conditions of Some Pacific Northwest Volcanic Ash Soils After Forest Harvest. Soil Science Society of America Journal 53:946-950.

Froehlich, Henry A and David H. McNab. 1983. Minimizing Soil Compaction in Pacific Northwest Forests. Proceedings of Sixth North American Forest Soils Conference, University of Tennessee.

Page-Dumrose, Deborah S. 1993. Susceptibility of Volcanic Ash Influenced Soils in Northern Idaho to Mechanical Compaction. U.S. Forest Service Intermountain Research Station. Research Note INT-409.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher