

## Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

*Hydrologic soil group* is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007(<http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba>). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series. Soil series are continually being defined and redefined, and the list of soil series names changes so frequently as to make the task of maintaining a single national list virtually impossible. Therefore, the criteria is now used to calculate the HSG using the component soil properties and no such national series lists will be maintained. All such references are obsolete and their use should be discontinued. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

*Group A.* Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

*Group B.* Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

*Group C.* Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

*Group D.* Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

*Depth* to the upper and lower boundaries of each layer is indicated.

*Texture* is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

*Classification* of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

*Rock fragments* larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

*Percentage (of soil particles) passing designated sieves* is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

*Liquid limit* and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

#### References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

## Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk "\*" denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007 (<http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba>).

Engineering Properties—Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
AgA—Alvada loam, 0 to 1 percent slopes														
Alvada	95	B/D	0-10	Loam	CL	A-6	0	0	85-100	85-100	70-95	50-80	25-40	10-20
			10-39	Clay loam, loam, sandy clay loam	CL, SC	A-2, A-6, A-7	0	0	85-100	80-100	70-95	30-75	25-45	10-25
			39-46	Gravelly loam, gravelly clay loam	CL, SC	A-7, A-2, A-6	0	0-5	60-100	60-100	35-70	30-60	25-45	10-25
			46-50	Loam, very gravelly loamy sand, very gravelly sandy loam	SM, SP-SM, SC-SM, SC	A-6, A-1, A-2, A-3, A-4	0	0-5	60-100	30-100	30-70	5-50	0-30	NP-15
			50-80	Loam, clay loam, silty clay loam	CL	A-6, A-7	0-1	0-5	90-100	90-100	80-100	50-90	30-45	10-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
AmA--Aurand fine sandy loam, 0 to 2 percent slopes														
Aurand	90	C/D	0-10	Fine sandy loam	SM, SC, SC-SM	A-2, A-4	0	0	95-100	85-100	65-100	30-50	15-30	NP-10
			10-30	Sandy clay loam, loam, clay loam	CL, SC	A-2, A-6, A-7	0	0	90-100	70-100	65-95	30-85	30-45	10-25
			30-38	Sandy loam, loam, silty clay loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-5, A-7, A-6	0	0-1	90-100	70-100	60-95	30-85	20-45	5-20
			38-59	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25
			59-80	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25
AnA--Aurand loam, 0 to 2 percent slopes														
Aurand	91	C/D	0-11	Loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0	0	95-100	85-100	65-100	45-75	20-40	5-20
			11-29	Sandy clay loam, loam, clay loam	CL, SC	A-2, A-6, A-7	0	0	90-100	70-100	65-95	30-85	30-45	10-25
			29-33	Sandy loam, loam, silty clay loam	SC-SM, CL, SC, CL-ML	A-7, A-5, A-2, A-4, A-6	0	0-1	90-100	70-100	60-95	30-85	20-45	5-20
			33-48	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25
			48-80	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25

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					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
AsA--Aurand-Urban land complex, 0 to 2 percent slopes														
Aurand	50	C/D	0-11	Loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0	0	95-100	85-100	65-100	45-75	20-40	5-20
			11-25	Sandy clay loam, loam, clay loam	CL, SC	A-2, A-6, A-7	0	0	90-100	70-100	65-95	30-85	30-45	10-25
			25-34	Sandy loam, loam, silty clay loam	SC-SM, CL, SC, CL-ML	A-2, A-4, A-6, A-7, A-5	0	0-1	90-100	70-100	60-95	30-85	20-45	5-20
			34-51	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25
			51-80	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25
BeB--Belmore sandy loam, 1 to 4 percent slopes														
Belmore	90	B	0-8	Sandy loam	SC, CL, CL-ML, SC-SM	A-4	0	0	85-100	80-100	50-90	40-55	15-30	NP-10
			8-40	Loam, gravelly sandy clay loam, clay loam, sandy clay loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-6	0	0	85-100	50-100	40-75	15-70	20-40	5-20
			40-60	Coarse sandy loam, sand, gravelly loamy sand	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10

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Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>					<i>Pct</i>	<i>Pct</i>					<i>Pct</i>
BfB--Belmore loam, 1 to 4 percent slopes														
Belmore	100	C	0-8	Loam	CL, CL-ML	A-6, A-4	0	0	85-100	80-100	60-90	50-80	20-35	5-15
			8-40	Loam, gravelly sandy clay loam, clay loam, sandy clay loam	CL, CL-ML, SC, SC-SM	A-4, A-6, A-2	0	0	85-100	50-100	40-75	15-70	20-40	5-20
			40-60	Coarse sandy loam, sand, gravelly loamy sand	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10
CaA--Castalia very cobbly loam, 0 to 2 percent slopes														
Castalia	90	A	0-7	Very cobbly loam	SC-SM, GC-GM, SC, GC	A-1, A-2	0-15	20-40	45-65	25-50	15-40	10-35	20-30	5-15
			7-21	Extremely channery loam, very flaggy sandy loam, extremely flaggy silt loam, extremely cobbly fine sandy loam	GC-GM, SP-SC, SC-SM, GP-GC, GC, SC	A-1, A-2	0-40	20-50	45-80	10-50	10-45	5-35	20-30	5-15
			21-23	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

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					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CbB--Castalia-Marblehead complex, very stony, 0 to 6 percent slopes														
Castalia	60	A	0-9	Very stony fine sandy loam	GC, GC-GM, SC, SC-SM	A-1, A-2	0-15	20-40	45-65	25-60	15-40	5-25	20-30	5-15
			9-16	Extremely channery loam, very flaggy sandy loam, extremely flaggy silt loam, extremely stony fine sandy loam	GC, GC-GM, GP-GC, SC, SC-SM, SP-SC	A-1, A-2	0-40	20-50	45-80	10-50	10-45	5-35	20-30	5-15
			16-22	Very channery silt loam, very flaggy sandy loam, extremely flaggy loam, extremely stony fine sandy loam	GC, GC-GM, GP-GC, SC, SC-SM, SP-SC	A-2, A-1	0-60	30-80	50-85	5-50	5-45	5-35	20-30	5-15
			22-24	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—
Marblehead	35	D	0-6	Gravelly silt loam	CL-ML, SC-SM, CL, SC	A-6, A-2, A-4	0-5	0-10	90-100	70-100	60-90	30-75	20-40	5-15
			6-8	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

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Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CcA--Colwood fine sandy loam, 0 to 1 percent slopes														
Colwood	90	B/D	0-8	Fine sandy loam	SC, SM, SC-SM	A-4	0	0	100	100	85-100	35-50	15-30	NP-10
			8-38	Fine sandy loam, silty clay loam, sandy clay loam	CL-ML, SC, SC-SM, CL	A-4, A-6	0	0	100	100	80-100	40-90	25-45	5-20
			38-60	Stratified fine sand to very fine sand to silt	SC-SM, CL-ML, CL, ML, SC, SM	A-2, A-4	0	0	100	100	70-100	30-80	10-25	NP-10
CdA--Colwood loam, 0 to 1 percent slopes														
Colwood	90	B/D	0-8	Loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	50-70	20-35	5-15
			8-38	Fine sandy loam, silty clay loam, sandy clay loam	CL-ML, SC, SC-SM, CL	A-4, A-6	0	0	100	100	80-100	40-90	25-45	5-20
			38-60	Stratified fine sand to very fine sand to silt	SC-SM, CL-ML, CL, ML, SC, SM	A-2, A-4	0	0	100	100	70-100	30-80	10-25	NP-10



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					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CoB--Colonie fine sand, 1 to 6 percent slopes														
Colonie	92	A	0-8	Fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	83-100	12-23	0-25	NP-10
			8-21	Loamy fine sand, fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	11-23	0-20	NP-5
			21-25	Fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	12-26	0-25	NP-10
			25-68	Fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	11-23	0-20	NP-5
			68-80	Sand, fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	97-100	82-100	9-23	0-15	NP-5
CoC--Colonie fine sand, 6 to 12 percent slopes														
Colonie	96	A	0-7	Fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	83-100	12-23	0-25	NP-10
			7-31	Loamy fine sand, fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	11-23	0-20	NP-5
			31-35	Fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	12-26	0-25	NP-10
			35-68	Fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	11-23	0-20	NP-5
			68-80	Sand, fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	97-100	82-100	9-23	0-15	NP-5

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					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CoD--Colonie fine sand, 12 to 18 percent slopes														
Colonie	90	A	0-8	Fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	83-100	12-23	0-25	NP-10
			8-21	Loamy fine sand, fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	11-23	0-20	NP-5
			21-25	Fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	12-26	0-25	NP-10
			25-68	Fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	96-100	82-100	11-23	0-20	NP-5
			68-80	Sand, fine sand, loamy fine sand	SP-SM, SM	A-2	0	0	98-100	97-100	82-100	9-23	0-15	NP-5
CtA--Colwood-Urban land complex, 0 to 1 percent slopes														
Colwood	55	B/D	0-8	Loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-100	50-70	20-35	5-15
			8-38	Fine sandy loam, silty clay loam, sandy clay loam	CL-ML, SC, SC-SM, CL	A-4, A-6	0	0	100	100	80-100	40-90	25-45	5-20
			38-60	Stratified fine sand to very fine sand to silt	SC-SM, CL-ML, CL, ML, SC, SM	A-2, A-4	0	0	100	100	70-100	30-80	10-25	NP-10

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					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CvA--Cygnet loam, 0 to 2 percent slopes														
Cygnet	90	B/D	0-11	Loam	SC-SM, SC, CL, CL-ML	A-4, A-6	0	0	85-100	75-100	70-100	40-70	20-30	5-15
			11-30	Clay loam, loam, gravelly clay loam	CL, CL-ML, SC, SC-SM	A-4, A-6, A-7, A-2	0	0	80-100	55-100	50-100	20-70	25-45	5-25
			30-53	Loam, sandy loam, gravelly loamy coarse sand	CL-ML, SC-SM, CL, ML, SC, SM	A-2, A-4, A-6	0	0	80-100	55-100	45-85	10-65	10-35	NP-15
			53-80	Silty clay, silty clay loam, clay loam	SC, CL	A-6, A-7	0	0-5	95-100	90-100	65-95	45-95	35-50	15-25

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			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
CxB---Castalia-Marblehead-Urban land complex, very stony, 0 to 6 percent slopes														
Castalia	40	A	0-9	Very stony fine sandy loam	GC, GC-GM, SC, SC-SM	A-1, A-2	0-15	20-40	45-65	25-60	15-40	5-25	20-30	5-15
			9-16	Extremely channery loam, very flaggy sandy loam, extremely flaggy silt loam, extremely stony fine sandy loam	GC, GC-GM, GP-GC, SC, SC-SM, SP-SC	A-1, A-2	0-40	20-50	45-80	10-50	10-45	5-35	20-30	5-15
			16-22	Very channery silt loam, very flaggy sandy loam, extremely flaggy loam, extremely stony fine sandy loam	GC, GC-GM, GP-GC, SC, SC-SM, SP-SC	A-1, A-2	0-60	30-80	50-85	5-50	5-45	5-35	20-30	5-15
			22-24	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Marblehead	30	D	0-6	Gravelly silt loam	CL-ML, SC-SM, CL, SC	A-6, A-2, A-4	0-5	0-10	90-100	70-100	60-90	30-75	20-40	5-15
			6-8	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

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					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
DgA—Digby sandy loam, 0 to 2 percent slopes														
Digby	95	B/D	0-7	Sandy loam	SC-SM, SC, SM	A-2, A-4	0	0	85-100	75-100	50-90	30-50	15-30	NP-10
			7-32	Sandy loam, clay loam, loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-6	0	0	85-100	75-100	65-80	20-60	20-40	5-20
			32-60	Gravelly sandy loam, very gravelly sand, gravelly loamy sand	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10
DhA—Digby loam, 0 to 2 percent slopes														
Digby	90	B/D	0-7	Loam	SC-SM, CL-ML, CL, SC	A-4, A-6	0	0	85-100	75-100	70-90	40-70	20-35	5-15
			7-32	Sandy loam, clay loam, loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-6	0	0	85-100	75-100	65-80	20-60	20-40	5-20
			32-60	Gravelly sandy loam, very gravelly sand, gravelly loamy sand	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
DrA--Dunbridge sandy loam, 0 to 2 percent slopes														
Dunbridge	90	B	0-8	Sandy loam	CL, SC, CL-ML, ML, SC-SM, SM	A-2, A-4	0	0-5	90-100	75-100	50-85	20-60	10-25	NP-10
			8-14	Loamy fine sand, fine sandy loam, sandy loam	SC-SM, SC, SM	A-2, A-4, A-1	0	0-5	90-100	75-100	35-90	20-50	15-30	NP-10
			14-25	Fine sandy loam, gravelly loam, sandy clay loam	CL-ML, CL, SP-SC, SC-SM, SC	A-2, A-4, A-1	0	0-5	90-100	50-100	35-85	10-60	20-35	5-20
			25-27	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
DsA--Dunbridge-Spinks, deep to limestone, loamy fine sands, 0 to 2 percent slopes														
Dunbridge	47	B	0-8	Loamy fine sand	SM, SP-SM, SC-SM	A-4, A-1, A-2	0	0-5	90-100	75-100	40-80	10-45	0-20	NP-5
			8-14	Loamy fine sand, fine sandy loam, sandy loam	SC-SM, SC, SM	A-1, A-2, A-4	0	0-5	90-100	75-100	35-90	20-50	15-30	NP-10
			14-25	Fine sandy loam, gravelly loam, sandy clay loam	CL-ML, CL, SP-SC, SC-SM, SC	A-2, A-4, A-1	0	0-5	90-100	50-100	35-85	10-60	20-35	5-20
			25-27	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—
Spinks, deep to limestone	43	A	0-9	Loamy fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			9-51	Fine sand, sand, loamy fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			51-53	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
DsB--Dunbridge-Spinks, deep to limestone, loamy fine sands, 2 to 6 percent slopes														
Dunbridge	47	B	0-8	Loamy fine sand	SM, SP-SM, SC-SM	A-1, A-2, A-4	0	0-5	90-100	75-100	40-80	10-45	0-20	NP-5
			8-14	Loamy fine sand, fine sandy loam, sandy loam	SC-SM, SC, SM	A-1, A-2, A-4	0	0-5	90-100	75-100	35-90	20-50	15-30	NP-10
			14-25	Fine sandy loam, gravelly loam, sandy clay loam	CL-ML, CL, SP-SC, SC-SM, SC	A-2, A-4, A-1	0	0-5	90-100	50-100	35-85	10-60	20-35	5-20
			25-27	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—
Spinks, deep to limestone	43	A	0-9	Loamy fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			9-51	Fine sand, sand, loamy fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			51-53	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—



Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
EaA—Eel loam, 0 to 2 percent slopes, frequently flooded														
Eel	100	B/D	0-8	Loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	60-75	20-40	5-15
			8-38	Silt loam, loam, clay loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	55-85	25-45	5-15
			38-60	Sandy loam, fine sandy loam, loam	CL, CL-ML, SC, SC-SM	A-4, A-6, A-2	0	0	100	75-100	60-90	30-70	20-40	5-15
EmA—Eel silt loam, 0 to 2 percent slopes, frequently flooded														
Eel	100	B/D	0-8	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	75-85	20-40	5-15
			8-38	Silt loam, loam, clay loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	55-85	25-45	5-15
			38-60	Sandy loam, fine sandy loam, loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-6	0	0	100	75-100	60-90	30-70	20-40	5-15
EnA—Eel silt loam, moderately deep to limestone, 0 to 2 percent slopes, frequently flooded														
Eel, moderately deep to limestone	100	C/D	0-9	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	75-85	20-40	5-15
			9-34	Silt loam, loam, clay loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	55-85	25-45	5-15
			34-36	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
FcA--Flatrock silt loam, 0 to 2 percent slopes, occasionally flooded														
Flatrock	90	B/D	0-11	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	85-100	70-90	20-40	5-20
			11-52	Silty clay loam, loam, silt loam	CL, CL-ML	A-4, A-6, A-7, A-5	0	0	100	90-100	85-100	60-90	20-45	5-25
			52-80	Stratified coarse sandy loam to loam	CL, SC, SC-SM, CL-ML	A-4, A-6, A-5, A-7, A-2	0	0	100	75-100	60-90	30-80	20-45	5-25
FuA--Fulton silty clay loam, till substratum, 0 to 2 percent slopes														
Fulton, till substratum	95	C/D	0-9	Silty clay loam	CL	A-7, A-6	0	0	100	100	85-100	70-90	30-45	10-25
			9-32	Silty clay, clay	CH	A-7	0	0	100	100	90-100	85-100	50-70	25-40
			32-47	Silty clay, clay, silty clay loam	CH, CL	A-7	0	0	100	100	90-100	85-100	40-60	20-35
			47-68	Silty clay loam	CL	A-7, A-6	0	0	100	100	90-100	85-100	35-50	15-25
			68-80	Clay, clay loam, silty clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
FuB--Fulton silty clay loam, till substratum, 2 to 6 percent slopes														
Fulton, till substratum	95	C/D	0-7	Silty clay loam	CL	A-6, A-7	0	0	100	100	85-100	70-90	30-45	10-25
			7-32	Silty clay, clay	CH	A-7	0	0	100	100	90-100	85-100	50-70	25-40
			32-41	Silty clay, clay, silty clay loam	CH, CL	A-7	0	0	100	100	90-100	85-100	40-60	20-35
			41-63	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	35-50	15-25
			63-80	Clay, clay loam, silty clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25
FzA--Fulton, till substratum-Urban land complex, 0 to 2 percent slopes														
Fulton, till substratum	60	C/D	0-8	Silty clay loam	CL	A-6, A-7	0	0	100	100	85-100	70-90	30-45	10-25
			8-28	Silty clay, clay	CH	A-7	0	0	100	100	90-100	85-100	50-70	25-40
			28-40	Silty clay, clay, silty clay loam	CH, CL	A-7	0	0	100	100	90-100	85-100	40-60	20-35
			40-64	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	85-100	35-50	15-25
			64-80	Clay, clay loam, silty clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
GmA--Genesee loam, 0 to 2 percent slopes, frequently flooded														
Genesee	100	B	0-9	Loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	50-75	25-45	5-15
			9-42	Silt loam, loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	50-90	25-45	5-15
			42-60	Stratified sandy loam to silt loam	CL, CL-ML, SC, SC-SM	A-4, A-6, A-2	0	0	90-100	75-100	60-90	30-90	20-35	5-15
GnA--Genesee silt loam, 0 to 2 percent slopes, frequently flooded														
Genesee	100	B	0-9	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	75-90	25-45	5-15
			9-42	Silt loam, loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	90-100	50-90	25-45	5-15
			42-60	Stratified sandy loam to silt loam	CL, CL-ML, SC, SC-SM	A-4, A-6, A-2	0	0	90-100	75-100	60-90	30-90	20-35	5-15

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
GpA—Granby loamy fine sand, till substratum, 0 to 1 percent slopes														
Granby, till substratum	85	A/D	0-11	Loamy fine sand	SM, SC-SM	A-2	0	0	100	90-100	50-75	15-30	0-20	NP-5
			11-33	Sand, fine sand, loamy fine sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	90-100	50-75	5-35	0-20	NP-5
			33-74	Stratified sand to fine sand to loamy fine sand	SM, SC-SM, SP-SM	A-2, A-3	0	0	100	90-100	65-90	5-35	0-20	NP-5
			74-80	Clay, silty clay loam, clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-25
HaA—Haney sandy loam, 0 to 2 percent slopes														
Haney	100	C	0-7	Sandy loam	SC, SC-SM, SM	A-2, A-4	0	0	85-100	75-100	50-85	30-45	15-25	NP-10
			7-34	Gravelly loam, sandy clay loam, clay loam	CL, SC	A-2, A-6	0	0	80-100	50-100	40-75	20-70	30-40	10-20
			34-60	Sandy loam, sand, gravelly loamy sand	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HaB--Haney sandy loam, 2 to 6 percent slopes														
Haney	100	C	0-7	Sandy loam	SC, SC-SM, SM	A-2, A-4	0	0	85-100	75-100	50-85	30-45	15-25	NP-10
			7-34	Gravelly loam, sandy clay loam, clay loam	CL, SC	A-2, A-6	0	0	80-100	50-100	40-75	20-70	30-40	10-20
			34-60	Sandy loam, sand, gravelly loamy sand	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10
HcA--Hoytville silty clay loam, 0 to 1 percent slopes														
Hoytville	91	C/D	0-9	Silty clay loam	CL, CH	A-7-6, A-7	0-1	0-1	97-100	93-100	86-100	74-91	48-65	22-31
			9-38	Clay loam, clay, silty clay, silty clay loam	CH, CL	A-7-6, A-7	0-2	0-2	94-100	88-100	83-100	72-92	47-61	27-36
			38-58	Clay, silty clay loam, clay loam, silty clay	CL, CH	A-7-6, A-7	0-3	0-3	95-100	90-100	81-99	68-87	43-54	23-31
			58-80	Clay, silty clay loam, clay loam, silty clay	CL, CH	A-7-6, A-6, A-7	0-2	0-2	95-100	91-100	82-99	68-85	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HdA--Haney loam, 0 to 2 percent slopes														
Haney	100	C	0-7	Loam	CL-ML, CL	A-4, A-6	0	0	85-100	75-100	70-90	50-80	20-30	5-15
			7-34	Gravelly loam, sandy clay loam, clay loam	CL, SC	A-6, A-2	0	0	80-100	50-100	40-75	20-70	30-40	10-20
			34-60	Sandy loam, sand, gravelly loamy sand	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10
HdB--Haney loam, 2 to 6 percent slopes														
Haney	100	C	0-7	Loam	CL, CL-ML	A-4, A-6	0	0	85-100	75-100	70-90	50-80	20-30	5-15
			7-34	Gravelly loam, sandy clay loam, clay loam	CL, SC	A-2, A-6	0	0	80-100	50-100	40-75	20-70	30-40	10-20
			34-60	Sandy loam, sand, gravelly loamy sand	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HeA--Haskins and Digby, till substratum, fine sandy loams, 0 to 2 percent slopes														
Haskins	46	C/D	0-6	Fine sandy loam	SC, SC-SM	A-2, A-4	0	0	95-100	85-100	55-85	25-50	20-30	5-10
			6-36	Sandy loam, clay loam, sandy clay loam	CL, SC	A-2, A-6	0	0	85-100	70-100	55-85	30-65	25-40	10-20
			36-42	Clay loam, silty clay, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			42-60	Silty clay loam, clay loam, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Digby, till substratum	44	C/D	0-8	Fine sandy loam	SC, SM, SC-SM	A-2, A-4	0	0	85-100	75-100	50-90	30-50	15-30	NP-10
			8-34	Clay loam, sandy clay loam, loam	CL, SC	A-2, A-6	0	0	85-100	75-100	65-80	20-60	20-40	5-20
			34-37	Gravelly loamy sand, very gravelly sand, gravelly sandy loam	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10
			37-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25



Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HeB--Haskins and Digby, till substratum, fine sandy loams, 2 to 6 percent slopes														
Haskins	46	C/D	0-6	Fine sandy loam	SC, SC-SM	A-2, A-4	0	0	95-100	85-100	55-85	25-50	20-30	5-10
			6-36	Sandy loam, clay loam, sandy clay loam	CL, SC	A-2, A-6	0	0	85-100	70-100	55-85	30-65	25-40	10-20
			36-42	Clay loam, silty clay, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			42-60	Silty clay loam, clay loam, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Digby, till substratum	44	C/D	0-8	Fine sandy loam	SC, SM, SC-SM	A-2, A-4	0	0	85-100	75-100	50-90	30-50	15-30	NP-10
			8-34	Clay loam, sandy clay loam, loam	CL, SC	A-2, A-6	0	0	85-100	75-100	65-80	20-60	20-40	5-20
			34-37	Gravelly loamy sand, very gravelly sand, gravelly sandy loam	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10
			37-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HfA--Haskins and Digby, till substratum, loams, 0 to 2 percent slopes														
Haskins	46	C/D	0-6	Loam	CL-ML, CL	A-4, A-6	0	0	95-100	85-100	70-100	55-75	20-40	5-15
			6-36	Sandy loam, clay loam, sandy clay loam	CL, SC	A-2, A-6	0	0	85-100	70-100	55-85	30-65	25-40	10-20
			36-42	Clay loam, silty clay, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			42-60	Silty clay loam, clay loam, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Digby, till substratum	44	C/D	0-8	Loam	CL-ML, CL, SC, SC-SM	A-4, A-6	0	0	85-100	75-100	70-90	40-70	20-35	5-15
			8-34	Clay loam, sandy clay loam, loam	CL, SC	A-2, A-6	0	0	85-100	75-100	65-80	20-60	20-40	5-20
			34-37	Gravelly loamy sand, very gravelly sand, gravelly sandy loam	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10
			37-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HfB--Haskins and Digby, till substratum, loams, 2 to 6 percent slopes														
Haskins	46	C/D	0-6	Loam	CL-ML, CL	A-4, A-6	0	0	95-100	85-100	70-100	55-75	20-40	5-15
			6-36	Sandy loam, clay loam, sandy clay loam	CL, SC	A-2, A-6	0	0	85-100	70-100	55-85	30-65	25-40	10-20
			36-42	Clay loam, silty clay, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			42-60	Silty clay loam, clay loam, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Digby, till substratum	44	C/D	0-8	Loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0	0	85-100	75-100	70-90	40-70	20-35	5-15
			8-34	Clay loam, sandy clay loam, loam	CL, SC	A-2, A-6	0	0	85-100	75-100	65-80	20-60	20-40	5-20
			34-37	Gravelly loamy sand, very gravelly sand, gravelly sandy loam	SC, SC-SM, SM	A-1, A-2	0	0-5	80-100	45-95	30-60	5-20	10-25	NP-10
			37-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
HoA--Hoytville clay loam, 0 to 1 percent slopes														
Hoytville	91	C/D	0-8	Clay loam	CL, CH	A-7-6, A-7	0-1	0-1	97-100	93-100	83-100	68-86	47-65	21-29
			8-35	Clay loam, clay, silty clay, silty clay loam	CH, CL	A-7-6, A-7	0-2	0-2	94-100	88-100	81-100	70-90	47-61	27-36
			35-57	Clay, silty clay loam, clay loam, silty clay	CL, CH	A-7-6, A-7	0-3	0-3	95-100	90-100	81-100	68-87	43-56	23-32
			57-80	Clay, silty clay loam, clay loam, silty clay	CL, CH	A-7-6, A-7	0-2	0-2	95-100	91-100	82-99	68-85	42-52	23-30
HyA--Hoytville-Urban land complex, 0 to 1 percent slopes														
Hoytville	60	C/D	0-8	Clay loam	CL, CH	A-7, A-7-6	0-1	0-1	97-100	93-100	83-100	68-86	47-65	21-29
			8-35	Clay loam, clay, silty clay, silty clay loam	CH, CL	A-7, A-7-6	0-2	0-2	94-100	88-100	81-100	70-90	47-61	27-36
			35-57	Clay, silty clay loam, clay loam, silty clay	CL, CH	A-7, A-7-6	0-3	0-3	95-100	90-100	81-100	68-87	43-56	23-32
			57-80	Clay, silty clay loam, clay loam, silty clay	CL, CH	A-7, A-7-6	0-2	0-2	95-100	91-100	82-99	68-85	42-52	23-30

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
JoA--Joliet silty clay loam, 0 to 1 percent slopes														
Joliet	90	C/D	0-6	Silty clay loam	CL	A-6, A-7	0-1	0-5	90-100	75-100	70-100	60-85	35-45	15-25
			6-16	Clay loam, silty clay loam, silty clay	CL	A-6, A-7	0-1	0-10	90-100	75-100	65-95	50-90	35-50	15-30
			16-18	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
KeA--Kibbie loamy fine sand, 0 to 2 percent slopes														
Kibbie	90	B/D	0-16	Loamy fine sand	SC-SM, SM, SC	A-2, A-4	0	0	100	95-100	70-95	30-45	0-25	NP-10
			16-36	Fine sandy loam, silty clay loam, loam	CL, SC	A-6, A-7	0	0	100	95-100	70-95	35-90	25-45	10-20
			36-60	Stratified fine sand to silt loam	SC, SM, CL, ML, SC-SM, CL-ML	A-2, A-4	0	0	100	95-100	70-95	30-80	15-30	NP-10

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
KfA--Kibbie fine sandy loam, 0 to 2 percent slopes														
Kibbie	90	B/D	0-10	Fine sandy loam	CL, ML, SC, SM, SC-SM, CL-ML	A-4, A-2	0	0	100	95-100	75-95	30-60	15-30	NP-10
			10-16	Loamy fine sand	SC, SC-SM, SM	A-4, A-2	0	0	100	95-100	70-95	30-45	0-25	NP-10
			16-36	Fine sandy loam, silty clay loam, loam	CL, SC	A-6, A-7	0	0	100	95-100	70-95	35-90	25-45	10-20
			36-60	Stratified fine sand to silt loam	SC, SM, CL, ML, SC-SM, CL-ML	A-2, A-4	0	0	100	95-100	70-95	30-80	15-30	NP-10
KfB--Kibbie fine sandy loam, 2 to 6 percent slopes														
Kibbie	90	B/D	0-10	Fine sandy loam	CL, ML, SC, SM, SC-SM, CL-ML	A-2, A-4	0	0	100	95-100	75-95	30-60	15-30	NP-10
			10-16	Loamy fine sand	SC, SC-SM, SM	A-2, A-4	0	0	100	95-100	70-95	30-45	0-25	NP-10
			16-36	Fine sandy loam, silty clay loam, loam	CL, SC	A-6, A-7	0	0	100	95-100	70-95	35-90	25-45	10-20
			36-60	Stratified fine sand to silt loam	SC, SM, CL, ML, SC-SM, CL-ML	A-2, A-4	0	0	100	95-100	70-95	30-80	15-30	NP-10

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
KkA--Kibbie-Urban land complex, 0 to 2 percent slopes														
Kibbie	55	B/D	0-10	Fine sandy loam	CL, ML, SC, SM, SC-SM, CL-ML	A-2, A-4	0	0	100	95-100	75-95	30-60	15-30	NP-10
			10-16	Loamy fine sand	SC, SC-SM, SM	A-2, A-4	0	0	100	95-100	70-95	30-45	0-25	NP-10
			16-36	Fine sandy loam, silty clay loam, loam	CL, SC	A-6, A-7	0	0	100	95-100	70-95	35-90	25-45	10-20
			36-60	Stratified fine sand to silt loam	SC, SM, CL, ML, SC-SM, CL-ML	A-2, A-4	0	0	100	95-100	70-95	30-80	15-30	NP-10
LbB--Landes loamy fine sand, 0 to 6 percent slopes, frequently flooded														
Landes	95	A	0-20	Loamy fine sand	SC-SM, SM	A-2	0	0	100	85-100	70-95	10-30	10-25	NP-10
			20-32	Loam, very fine sandy loam, loamy fine sand	CL-ML, SC, SC-SM, SM, ML, CL	A-2, A-4	0	0	100	85-100	70-90	15-60	10-25	NP-10
			32-80	Stratified fine sand to fine sandy loam	SC-SM, SM, SP-SM, SC	A-2, A-4	0	0	100	85-100	70-85	10-60	10-30	NP-10

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
LdA--Latty silty clay, till substratum, 0 to 1 percent slopes														
Latty, till substratum	93	C/D	0-10	Silty clay	CL, CH	A-7	0	0	100	100	90-100	85-100	45-60	20-35
			10-41	Clay, silty clay	CH	A-7	0	0	100	100	90-100	85-100	50-70	25-40
			41-61	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0	0	100	100	90-100	85-100	40-70	20-40
			61-80	Clay, silty clay loam, clay loam	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-30
LgA--Latty, till substratum-Urban land complex, 0 to 1 percent slopes														
Latty, till substratum	63	C/D	0-8	Silty clay	CH, CL	A-7	0	0	100	100	90-100	85-100	45-60	20-35
			8-39	Clay, silty clay	CH	A-7	0	0	100	100	90-100	85-100	50-70	25-40
			39-76	Clay, silty clay, silty clay loam	CH, CL	A-6, A-7	0	0	100	100	90-100	85-100	40-70	20-40
			76-80	Silty clay loam, clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	80-100	65-95	35-50	15-30



Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
MbA--Millgrove loam, 0 to 1 percent slopes														
Millgrove	90	B/D	0-8	Loam	CL, SC	A-6	0	0	85-100	75-100	60-95	35-75	25-40	10-20
			8-21	Clay loam, sandy clay loam, loam	CL, SC	A-6, A-7, A-2	0	0	85-100	75-100	60-95	20-75	25-45	10-25
			21-43	Gravelly sandy loam, sandy loam	CL, SC, CL-ML, ML, SC-SM, SM	A-2, A-4	0	0	85-100	45-100	30-75	10-55	15-25	NP-10
			43-60	Gravelly loamy sand	CL, CL-ML, ML, SC, SC-SM, SM	A-2, A-4	0	0-5	60-100	45-100	30-70	10-55	15-25	NP-10
McA--Mermill fine sandy loam, 0 to 1 percent slopes														
Mermill	90	C/D	0-8	Fine sandy loam	CL-ML, CL, SC, SC-SM	A-4	0	0	95-100	85-100	65-85	35-55	20-30	5-10
			8-38	Clay loam, sandy clay loam, loam	SC-SM, CL-ML, CL, SC	A-5, A-4, A-6, A-7	0	0	90-100	85-100	70-85	40-75	25-45	5-25
			38-60	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-2	95-100	85-100	75-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
MdA--Merrill loam, 0 to 1 percent slopes														
Merrill	90	C/D	0-9	Loam	CL, CL-ML	A-4, A-6	0	0	95-100	85-100	75-100	50-70	20-40	5-20
			9-28	Clay loam, sandy clay loam, loam	SC-SM, CL, SC, CL-ML	A-4, A-6, A-7	0	0	90-100	85-100	70-85	40-75	25-45	5-25
			28-57	Clay, silty clay, clay loam	CL	A-6, A-7	0	0-2	95-100	85-100	75-100	65-95	35-50	15-25
			57-80	Clay, silty clay, clay loam	CL	A-6, A-7	0	0-2	95-100	85-100	75-100	65-95	35-50	15-25
MeA--Merrill sandy clay loam, 0 to 1 percent slopes														
Merrill	90	C/D	0-8	Sandy clay loam	CL, SC	A-6, A-7	0	0	95-100	85-100	70-90	35-55	30-45	10-20
			8-38	Clay loam, sandy clay loam, loam	SC-SM, CL-ML, CL, SC	A-5, A-4, A-6, A-7	0	0	90-100	85-100	70-85	40-75	25-45	5-25
			38-60	Silty clay loam, clay, clay loam	CL	A-6, A-7	0	0-2	95-100	85-100	75-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
MfA--Merrill-Aurand complex, 0 to 1 percent slopes														
Merrill	60	C/D	0-9	Loam	CL, CL-ML	A-4, A-6	0	0	95-100	85-100	75-100	50-70	20-40	5-20
			9-35	Clay loam, sandy clay loam, loam	SC-SM, CL, SC, CL-ML	A-4, A-6, A-7, A-5	0	0	90-100	85-100	70-85	40-75	25-45	5-25
			35-46	Clay, silty clay, clay loam	CL	A-6, A-7	0	0-2	95-100	85-100	75-100	65-95	35-50	15-25
			46-80	Clay, silty clay, clay loam	CL	A-6, A-7	0	0-2	95-100	85-100	75-100	65-95	35-50	15-25
Aurand	35	C/D	0-11	Loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0	0	95-100	85-100	65-100	45-75	20-40	5-20
			11-23	Sandy clay loam, loam, clay loam	CL, SC	A-2, A-6, A-7	0	0	90-100	70-100	65-95	30-85	30-45	10-25
			23-29	Sandy loam, clay loam, silty clay loam	CL, SC, SC-SM, CL-ML	A-2, A-4, A-6, A-7, A-5	0	0-1	90-100	70-100	60-95	30-85	20-45	5-20
			29-51	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25
			51-80	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
MgA--Merrill-Urban land complex, 0 to 1 percent slopes														
Merrill	60	C/D	0-9	Loam	CL, CL-ML	A-4, A-6	0	0	95-100	85-100	75-100	50-70	20-40	5-20
			9-32	Clay loam, sandy clay loam, loam	SC-SM, CL, SC, CL-ML	A-4, A-6, A-7, A-5	0	0	90-100	85-100	70-85	40-75	25-45	5-25
			32-47	Clay, silty clay, clay loam	CL	A-6, A-7	0	0-2	95-100	85-100	75-100	65-95	35-50	15-25
			47-80	Clay, silty clay, clay loam	CL	A-6, A-7	0	0-2	95-100	85-100	75-100	65-95	35-50	15-25
MhA--Millsdale silty clay loam, 0 to 1 percent slopes														
Millsdale	90	C/D	0-7	Silty clay loam	CL	A-6, A-7	0	0	90-100	75-100	70-100	65-95	35-45	15-25
			7-32	Clay, silty clay loam, clay loam, silty clay	CH, CL	A-7, A-6	0	0-5	85-100	75-100	70-100	55-95	40-55	20-35
			32-34	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—
MkA--Millsdale silty clay loam, stony, 0 to 1 percent slopes														
Millsdale	90	C/D	0-7	Silty clay loam	CL	A-6, A-7	0	0	90-100	75-100	70-100	65-95	35-45	15-25
			7-32	Clay, silty clay loam, clay loam, silty clay	CH, CL	A-6, A-7	0	0-5	85-100	75-100	70-100	55-95	40-55	20-35
			32-34	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
MmA--Millsdale-Urban land complex, 0 to 1 percent slopes														
Millsdale	65	C/D	0-7	Silty clay loam	CL	A-6, A-7	0	0	90-100	75-100	70-100	65-95	35-45	15-25
			7-32	Clay, silty clay loam, clay loam, silty clay	CH, CL	A-6, A-7	0	0-5	85-100	75-100	70-100	55-95	40-55	20-35
			32-34	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
MnA--Milton loam, 0 to 2 percent slopes														
Milton	90	C	0-6	Loam	CL, CL-ML, SC-SM, SC	A-4, A-6	0	0	95-100	90-100	85-100	45-75	20-40	5-20
			6-11	Silty clay loam, clay loam, loam	CL	A-6, A-7	0	0	95-100	80-100	75-100	50-80	30-50	10-25
			11-26	Clay loam, clay, silty clay	CH, CL	A-6, A-7	0	0-5	95-100	80-100	70-95	50-90	35-55	15-30
			26-28	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
MnB--Milton loam, 2 to 6 percent slopes														
Milton	90	C	0-6	Loam	CL, CL-ML, SC-SM, SC	A-4, A-6	0	0	95-100	90-100	85-100	45-75	20-40	5-20
			6-11	Silty clay loam, clay loam, loam	CL	A-6, A-7	0	0	95-100	80-100	75-100	50-80	30-50	10-25
			11-26	Clay loam, clay, silty clay	CH, CL	A-6, A-7	0	0-5	95-100	80-100	70-95	50-90	35-55	15-30
			26-28	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
NmA--Nappanee sandy loam, 0 to 2 percent slopes														
Nappanee	100	C/D	0-8	Sandy loam	CL-ML, CL, SC-SM, SC	A-2, A-4	0	0-5	95-100	90-100	50-90	30-55	20-30	5-10
			8-28	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
NmB--Nappanee sandy loam, 2 to 6 percent slopes														
Nappanee	100	C/D	0-8	Sandy loam	CL-ML, CL, SC-SM, SC	A-2, A-4	0	0-5	95-100	90-100	50-90	30-55	20-30	5-10
			8-28	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
NnA--Nappanee loam, 0 to 2 percent slopes														
Nappanee	90	C/D	0-8	Loam	CL	A-6	0	0-5	95-100	90-100	85-100	55-90	30-40	10-15
			8-28	Clay, silty clay	CL, CH	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-7, A-6	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
NnB--Nappanee loam, 2 to 6 percent slopes														
Nappanee	90	C/D	0-8	Loam	CL	A-6	0	0-5	95-100	90-100	85-100	55-90	30-40	10-15
			8-28	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
NnB2--Nappanee loam, 2 to 6 percent slopes, eroded														
Nappanee	90	C/D	0-8	Loam	CL	A-6	0	0-5	95-100	90-100	85-100	55-90	30-40	10-15
			8-28	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
NpA--Nappanee silty clay loam, 0 to 2 percent slopes														
Nappanee	90	C/D	0-8	Silty clay loam	CL	A-7	0	0-5	95-100	90-100	85-100	70-95	40-50	20-25
			8-28	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
NpB--Nappanee silty clay loam, 2 to 6 percent slopes														
Nappanee	100	C/D	0-8	Silty clay loam	CL	A-7	0	0-5	95-100	90-100	85-100	70-95	40-50	20-25
			8-28	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
NpB2--Nappanee silty clay loam, 2 to 6 percent slopes, eroded														
Nappanee	90	C/D	0-8	Silty clay loam	CL	A-7	0	0-5	95-100	90-100	85-100	70-95	40-50	20-25
			8-28	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
NsA--Nappanee-Urban land complex, 0 to 2 percent slopes														
Nappanee	60	C/D	0-8	Silty clay loam	CL	A-6	0	0-5	95-100	90-100	85-100	55-90	30-40	10-15
			8-28	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	90-100	85-100	70-95	45-70	25-40
			28-60	Clay loam, clay, silty clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25



Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
OsB--Oshtemo sandy loam, till substratum, 2 to 6 percent slopes														
Oshtemo, till substratum	95	A	0-11	Sandy loam	SM, SC-SM, SC	A-2, A-4	0	0	95-100	75-100	55-70	25-40	0-25	NP-10
			11-34	Gravelly sandy loam, sandy clay loam, sandy loam	SC-SM, SC	A-2, A-4, A-1, A-6	0	0	95-100	55-100	35-85	15-50	20-30	5-15
			34-44	Gravelly sandy loam, sandy loam, loamy sand	SM, SP-SM, SC-SM, SC	A-2, A-1	0	0	85-95	55-95	30-70	10-30	0-25	NP-10
			44-75	Loamy coarse sand, gravelly loamy coarse sand, loamy sand	SM, SP-SM, SC-SM	A-1, A-2, A-3	0	0-5	65-95	55-95	20-60	5-15	0-25	NP-5
			75-80	Clay loam, silty clay loam, clay	CL	A-6, A-7	0	0-5	95-100	90-100	85-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
OtA--Ottokee-Spinks loamy fine sands, 0 to 2 percent slopes														
Ottokee	46	A	0-11	Loamy fine sand	SM, SC-SM	A-2, A-4	0	0	100	90-100	55-80	15-40	0-20	NP-5
			11-47	Loamy fine sand, fine sand, loamy sand	SM, SC-SM, SP-SM	A-2, A-3	0	0	100	90-100	65-90	5-35	0-20	NP-5
			47-60	Fine sand, sand, loamy fine sand	SM, SC-SM, SP-SM	A-2, A-3	0	0	100	95-100	65-90	5-35	0-20	NP-5
Spinks	44	A	0-7	Loamy fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			7-48	Loamy fine sand, sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			48-60	Fine sand, loamy fine sand, sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
OtB--Ottokee-Spinks loamy fine sands, 2 to 6 percent slopes														
Ottokee	51	A	0-11	Loamy fine sand	SM, SC-SM	A-2, A-4	0	0	100	90-100	55-80	15-40	0-20	NP-5
			11-47	Loamy fine sand, fine sand, loamy sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	90-100	65-90	5-35	0-20	NP-5
			47-60	Fine sand, sand, loamy fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	100	95-100	65-90	5-35	0-20	NP-5
Spinks	49	A	0-7	Loamy fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			7-48	Loamy fine sand, sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			48-60	Fine sand, loamy fine sand, sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
OzB--Ottokee-Spinks-Urban land complex, 0 to 6 percent slopes														
Ottokee	36	A	0-11	Loamy fine sand	SM, SC-SM	A-2, A-4	0	0	100	90-100	55-80	15-40	0-20	NP-5
			11-47	Loamy sand, fine sand, loamy fine sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	90-100	65-90	5-35	0-20	NP-5
			47-60	Loamy fine sand, sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	100	95-100	65-90	5-35	0-20	NP-5
Spinks	34	A	0-7	Loamy fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			7-48	Fine sand, sand, loamy fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			48-60	Sand, loamy fine sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
RbA--Randolph loam, 0 to 2 percent slopes														
Randolph	90	C/D	0-10	Loam	CL, CL-ML	A-4, A-6	0	0	95-100	95-100	90-100	50-75	25-35	5-15
			10-32	Silty clay loam, silty clay, clay loam	CH, CL	A-6, A-7	0	0-5	85-100	75-100	75-90	55-90	40-60	20-35
			32-34	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
RbB--Randolph loam, 2 to 6 percent slopes														
Randolph	90	C/D	0-10	Loam	CL, CL-ML	A-4, A-6	0	0	95-100	95-100	90-100	50-75	25-35	5-15
			10-32	Silty clay loam, silty clay, clay loam	CH, CL	A-6, A-7	0	0-5	85-100	75-100	75-90	55-90	40-60	20-35
			32-34	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
RcA--Rimer loamy fine sand, 0 to 2 percent slopes														
Rimer	95	D	0-24	Loamy fine sand	SM	A-2, A-4	0	0	95-100	90-100	70-90	20-45	0-14	NP
			24-70	Silty clay, clay	CH, CL-ML	A-6, A-7	0	0	95-100	90-100	85-100	80-95	35-60	15-30
RdA--Randolph loam, stony, 0 to 2 percent slopes														
Randolph	90	C/D	0-10	Loam	CL, CL-ML	A-4, A-6	0	0	95-100	95-100	90-100	50-75	25-35	5-15
			10-32	Silty clay loam, silty clay, clay loam	CH, CL	A-6, A-7	0	0-5	85-100	75-100	75-90	55-90	40-60	20-35
			32-34	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
ReA--Randolph-Urban land complex, 0 to 2 percent slopes														
Randolph	55	C/D	0-10	Loam	CL, CL-ML	A-4, A-6	0	0	95-100	95-100	90-100	50-75	25-35	5-15
			10-32	Clay loam, silty clay, silty clay loam	CH, CL	A-6, A-7	0	0-5	85-100	75-100	75-90	55-90	40-60	20-35
			32-34	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
RfA--Rimer and Tedrow, till substratum, loamy fine sands, 0 to 2 percent slopes														
Rimer	46	C/D	0-8	Loamy fine sand	SM, SC-SM, SC	A-1, A-2, A-4	0	0	100	95-100	45-80	15-40	0-25	NP-10
			8-25	Loamy fine sand, fine sand, loamy sand	SC, SC-SM, SM	A-2, A-4	0	0	100	95-100	75-90	20-40	0-25	NP-10
			25-27	Fine sandy loam, sandy loam	SC, SM, SC-SM	A-4, A-6	0	0	100	95-100	60-80	35-45	15-30	NP-15
			27-32	Clay loam, silty clay, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			32-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Tedrow, till substratum	44	C/D	0-14	Loamy fine sand	SM, SC-SM, SC	A-2	0	0	100	95-100	60-80	20-35	0-20	NP-10
			14-34	Loamy fine sand, fine sand, sand	SM, SW-SM, SC-SM, SC	A-2, A-3	0	0	100	95-100	60-80	5-35	0-20	NP-10
			34-60	Clay, clay loam, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
RfB--Rimer and Tedrow, till substratum, loamy fine sands, 2 to 6 percent slopes														
Rimer	46	C/D	0-8	Loamy fine sand	SM, SC-SM, SC	A-1, A-2, A-4	0	0	100	95-100	45-80	15-40	0-25	NP-10
			8-25	Loamy fine sand, fine sand, loamy sand	SC, SC-SM, SM	A-2, A-4	0	0	100	95-100	75-90	20-40	0-25	NP-10
			25-27	Fine sandy loam, sandy loam	SC, SM, SC-SM	A-4, A-6	0	0	100	95-100	60-80	35-45	15-30	NP-15
			27-32	Clay loam, silty clay, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			32-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Tedrow, till substratum	44	C/D	0-14	Loamy fine sand	SM, SC-SM, SC	A-2	0	0	100	95-100	60-80	20-35	0-20	NP-10
			14-34	Loamy fine sand, fine sand, sand	SM, SW-SM, SC-SM, SC	A-2, A-3	0	0	100	95-100	60-80	5-35	0-20	NP-10
			34-60	Clay, clay loam, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
RgA--Rimer and Tedrow-Urban land complex, 0 to 2 percent slopes														
Rimer	34	C/D	0-8	Loamy fine sand	SM, SC- SM, SC	A-1, A-2, A-4	0	0	100	95-100	45-80	15-40	0-25	NP-10
			8-25	Loamy sand, fine sand, loamy fine sand	SC, SC- SM, SM	A-2, A-4	0	0	100	95-100	75-90	20-40	0-25	NP-10
			25-27	Sandy loam, fine sandy loam	SC, SM, SC-SM	A-4, A-6	0	0	100	95-100	60-80	35-45	15-30	NP-15
			27-32	Clay, silty clay, clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			32-60	Silty clay loam, clay, clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Tedrow, till substratum	31	C/D	0-14	Loamy fine sand	SM, SC- SM, SC	A-2	0	0	100	95-100	60-80	20-35	0-20	NP-10
			14-34	Loamy fine sand, fine sand, sand	SM, SW- SM, SC- SM, SC	A-2, A-3	0	0	100	95-100	60-80	5-35	0-20	NP-10
			34-60	Clay, clay loam, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
RhA--Ritchey loam, 0 to 2 percent slopes														
Ritchey	90	D	0-8	Loam	CL	A-6	0	0	95-100	85-100	80-100	50-75	25-40	10-15
			8-16	Clay loam, loam	CL	A-6	0-1	0-5	90-100	85-100	70-100	50-85	30-45	10-20
			16-18	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---



Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
RhB--Ritchey loam, 2 to 6 percent slopes														
Ritchey	90	D	0-8	Loam	CL	A-6	0	0	95-100	85-100	80-100	50-75	25-40	10-15
			8-16	Clay loam, loam	CL	A-6	0-1	0-5	90-100	85-100	70-100	50-85	30-45	10-20
			16-18	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—
RkA--Ritchey loam, stony, 0 to 2 percent slopes														
Ritchey	90	D	0-8	Loam	CL	A-6	0	0	95-100	85-100	80-90	50-75	25-40	10-15
			8-16	Clay loam, loam	CL	A-6	0-1	0-5	90-100	85-100	70-100	50-85	30-45	10-20
			16-18	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
RmA--Risingsun-Rollersville complex, 0 to 1 percent slopes														
Risingsun	60	C/D	0-9	Muck	PT	A-8	0	0	—	—	—	—	—	—
			9-11	Silt loam, silty clay loam	CL	A-7, A-6	0	0	100	100	90-100	80-100	30-45	10-25
			11-26	Fine sandy loam, loamy sand, loamy fine sand	SM, SC- SM, SC	A-2, A-4	0	0	100	85-100	65-85	20-45	0-30	NP-10
			26-43	Clay loam, silty clay loam	CL	A-6, A-7	0	0-2	90-100	90-100	80-100	65-95	35-45	15-20
			43-80	Clay loam, silty clay loam	CL	A-6, A-7	0	0-2	90-100	90-100	80-100	65-95	35-45	15-20
Rollersville	35	C/D	0-12	Fine sandy loam	SC, SM, SC-SM	A-2, A-4	0	0	100	90-100	50-85	20-45	0-30	NP-10
			12-26	Fine sand, loamy fine sand, sand	SM, SC, SC-SM, SP-SM	A-2	0	0	100	85-100	65-85	10-35	0-30	NP-10
			26-49	Clay loam, silty clay loam	CL	A-6, A-7	0	0-2	90-100	90-100	80-100	65-95	35-45	15-20
			49-80	Clay loam, silty clay loam	CL	A-6, A-7	0	0-2	90-100	90-100	80-100	65-95	35-45	15-20

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
RnA--Rollersville-Risingsun complex, 0 to 1 percent slopes														
Rollersville	65	C/D	0-11	Fine sandy loam	SC, SC-SM, SM	A-2, A-4	0	0	100	90-100	50-85	20-45	0-30	NP-10
			11-38	Fine sand, loamy fine sand, sand	SP-SM, SC-SM, SC, SM	A-2	0	0	100	85-100	65-85	10-35	0-30	NP-10
			38-52	Clay loam, silty clay loam	CL	A-7, A-6	0	0-2	90-100	90-100	80-100	65-95	35-45	15-20
			52-80	Clay loam, silty clay loam	CL	A-7, A-6	0	0-2	90-100	90-100	80-100	65-95	35-45	15-20
Risingsun	35	C/D	0-9	Muck	PT	A-8	0	0	—	—	—	—	—	—
			9-14	Silt loam, silty clay loam	CL	A-7, A-6	0	0	100	100	90-100	80-100	30-45	10-25
			14-27	Fine sandy loam, loamy sand, loamy fine sand	SM, SC-SM, SC	A-2, A-4	0	0	100	85-100	65-85	20-45	0-30	NP-10
			27-41	Clay loam, silty clay loam	CL	A-6, A-7	0	0-2	90-100	90-100	80-100	65-95	35-45	15-20
			41-80	Clay loam, silty clay loam	CL	A-6, A-7	0	0-2	90-100	90-100	80-100	65-95	35-45	15-20

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
RsA--Rossburg silt loam, 0 to 2 percent slopes, frequently flooded														
Rossburg	100	B	0-18	Silt loam	CL, CL-ML	A-4, A-6	0	0	95-100	90-100	80-100	60-90	20-35	5-15
			18-36	Fine sandy loam, loam, silt loam	CL, CL-ML	A-4, A-6	0	0	90-100	85-100	70-95	50-80	20-35	5-15
			36-80	Stratified loamy fine sand to fine sandy loam to loam	CL, ML, SC, SM, SC-SM, CL-ML	A-2, A-4	0	0	80-100	50-100	45-90	25-70	15-25	NP-10

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SdA--Seward and Ottokee, till substratum, loamy fine sands, 0 to 2 percent slopes														
Seward	46	A	0-8	Loamy fine sand	SC, SM, SC-SM	A-1, A-2, A-4	0	0	100	95-100	45-80	15-40	0-25	NP-10
			8-24	Loamy fine sand, fine sand, loamy sand	SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	75-90	20-40	0-25	NP-10
			24-40	Fine sandy loam, sandy loam	SC, SM, SC-SM	A-4, A-6	0	0	100	95-100	60-80	35-45	15-30	NP-15
			40-45	Clay loam, silty clay, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			45-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Ottokee, till substratum	44	A	0-9	Loamy fine sand	SM, SC-SM	A-2, A-4	0	0	100	90-100	55-80	15-40	0-20	NP-5
			9-46	Loamy sand, fine sand, loamy fine sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	90-100	65-90	5-35	0-20	NP-5
			46-60	Silty clay loam, clay, clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SdB--Seward and Ottokee, till substratum, loamy fine sands, 2 to 6 percent slopes														
Seward	46	A	0-8	Loamy fine sand	SC, SM, SC-SM	A-1, A-2, A-4	0	0	100	95-100	45-80	15-40	0-25	NP-10
			8-24	Loamy fine sand, fine sand, loamy sand	SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	75-90	20-40	0-25	NP-10
			24-40	Fine sandy loam, sandy loam	SC, SM, SC-SM	A-4, A-6	0	0	100	95-100	60-80	35-45	15-30	NP-15
			40-45	Clay loam, silty clay, clay	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
			45-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
Ottokee, till substratum	44	A	0-9	Loamy fine sand	SM, SC-SM	A-2, A-4	0	0	100	90-100	55-80	15-40	0-20	NP-5
			9-46	Loamy sand, fine sand, loamy fine sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	90-100	65-90	5-35	0-20	NP-5
			46-60	Silty clay loam, clay, clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SeA--Shawtown loam, 0 to 2 percent slopes														
Shawtown	98	C	0-9	Loam	CL, CL-ML, SC-SM, SC	A-4, A-6	0	0	85-100	75-100	70-90	40-75	20-40	5-20
			9-53	Loam, clay loam, gravelly loam	CL, SC, CL-ML, SC-SM	A-1, A-2, A-4, A-6, A-7, A-5	0	0-1	80-100	60-95	35-80	15-60	25-45	5-25
			53-66	Gravelly loamy coarse sand, loamy sand, very gravelly sandy loam	SC, SM, SP-SM, SC-SM	A-1, A-2	0	0-1	80-100	40-95	25-80	10-35	0-25	NP-10
			66-80	Clay loam, silty clay loam, silt loam	CL, SC	A-6, A-7	0	0-5	95-100	90-100	75-95	45-95	30-50	10-30
SeB--Shawtown loam, 2 to 6 percent slopes														
Shawtown	98	C	0-9	Loam	CL, CL-ML, SC, SC-SM	A-4, A-6	0	0	85-100	75-100	70-90	40-75	20-40	5-20
			9-53	Loam, clay loam, gravelly loam	CL, SC, CL-ML, SC-SM	A-1, A-2, A-4, A-6, A-7, A-5	0	0-1	80-100	60-95	35-80	15-60	25-45	5-25
			53-66	Gravelly loamy coarse sand, loamy sand, very gravelly sandy loam	SC, SM, SP-SM, SC-SM	A-1, A-2	0	0-1	80-100	40-95	25-80	10-35	0-25	NP-10
			66-80	Clay loam, silty clay loam, silt loam	CL, SC	A-6, A-7	0	0-5	95-100	90-100	75-95	45-95	30-50	10-30

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SgA--Shoals loam, 0 to 2 percent slopes, frequently flooded														
Shoals	100	B/D	0-8	Loam	CL	A-6	0	0	100	95-100	90-100	50-75	25-35	10-15
			8-31	Silt loam, loam, clay loam	CL	A-7, A-6	0	0	100	95-100	90-100	55-85	25-45	10-20
			31-60	Sandy loam, loam, silt loam	CL, CL-ML, SC, SC-SM	A-4, A-2, A-6	0	0-3	90-100	75-100	60-80	30-70	20-35	5-15
ShA--Shoals silt loam, 0 to 2 percent slopes, frequently flooded														
Shoals	90	B/D	0-8	Silt loam	CL, CL-ML	A-6, A-4	0	0	100	90-100	90-100	65-90	25-40	5-20
			8-31	Silt loam, loam, clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	55-85	25-45	10-20
			31-60	Sandy loam, loam, silt loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-6	0	0-3	90-100	75-100	60-80	30-70	20-35	5-15
SkA--Shoals silty clay loam, 0 to 2 percent slopes, frequently flooded														
Shoals	90	B/D	0-8	Silty clay loam	CL	A-6	0	0	100	95-100	95-100	80-90	30-40	15-20
			8-31	Silt loam, loam, clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	55-85	25-45	10-20
			31-60	Sandy loam, loam, silt loam	CL, CL-ML, SC, SC-SM	A-2, A-4, A-6	0	0-3	90-100	75-100	60-80	30-70	20-35	5-15



Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SmA--Shoals and Sloan complex, moderately deep to limestone, 0 to 2 percent slopes, frequently flooded														
Shoals, moderately deep to limestone	51	C/D	0-8	Loam	CL	A-6	0	0	100	95-100	90-100	50-75	25-35	10-15
			8-31	Silt loam, loam, clay loam	CL	A-6, A-7	0	0	100	95-100	90-100	55-85	25-45	10-20
			31-33	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
Sloan, moderately deep to limestone	49	C/D	0-10	Silty clay loam	CL	A-6, A-7	0	0	100	90-100	90-100	80-95	35-45	15-25
			10-24	Silty clay loam, clay loam, silt loam	CL	A-6, A-7	0	0	100	90-100	85-100	50-95	30-45	10-20
			24-26	Unweathered bedrock	---	---	---	---	---	---	---	---	---	---
SnA--Sloan silt loam, 0 to 1 percent slopes, frequently flooded														
Sloan	90	B/D	0-10	Silt loam	CL, CL-ML	A-4, A-6	0	0	100	90-100	85-100	70-95	25-40	5-15
			10-26	Silty clay loam, clay loam, silt loam	CL	A-6, A-7	0	0	100	90-100	85-100	50-95	30-45	10-20
			26-60	Stratified loam to silty clay loam to gravelly sandy loam	SC-SM, CL-ML, CL, SC	A-4, A-6, A-2	0	0	85-100	50-100	45-95	30-90	20-40	5-20

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SoA--Sloan silty clay loam, 0 to 1 percent slopes, occasionally flooded														
Sloan	95	B/D	0-11	Silty clay loam	CL	A-6, A-7	0	0	100	90-100	90-100	80-95	35-45	15-25
			11-58	Silty clay loam, clay loam, silt loam	CL	A-6, A-7	0	0	100	90-100	85-100	50-95	30-45	10-20
			58-80	Stratified loam to silty clay loam to gravelly sandy loam	CL, SC, SC-SM, CL-ML	A-4, A-6, A-2	0	0	85-100	50-100	45-95	30-90	20-40	5-20
SpA--Sloan silty clay loam, 0 to 1 percent slopes, frequently flooded														
Sloan	90	B/D	0-10	Silty clay loam	CL	A-6, A-7	0	0	100	90-100	90-100	80-95	35-45	15-25
			10-26	Silty clay loam, clay loam, silt loam	CL	A-6, A-7	0	0	100	90-100	85-100	50-95	30-45	10-20
			26-60	Stratified loam to silty clay loam to gravelly sandy loam	SC-SM, CL-ML, CL, SC	A-4, A-6, A-2	0	0	85-100	50-100	45-95	30-90	20-40	5-20

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SrB—Spinks fine sand, 2 to 6 percent slopes														
Spinks	90	A	0-7	Fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			7-38	Loamy fine sand, sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			38-60	Fine sand, loamy fine sand, sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
SrC—Spinks fine sand, 6 to 12 percent slopes														
Spinks	90	A	0-7	Fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			7-38	Loamy fine sand, sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			38-60	Fine sand, loamy fine sand, sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SrD—Spinks fine sand, 12 to 18 percent slopes														
Spinks	90	A	0-7	Fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			7-38	Loamy fine sand, sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			38-60	Fine sand, loamy fine sand, sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
SsB—Spinks loamy fine sand, 2 to 6 percent slopes														
Spinks	90	A	0-7	Loamy fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			7-38	Fine sand, sand, loamy fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			38-60	Sand, loamy fine sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SsC—Spinks loamy fine sand, 6 to 12 percent slopes														
Spinks	90	A	0-7	Loamy fine sand	SC-SM, SM, SP-SM	A-2	0	0	95-100	90-100	55-80	10-30	0-20	NP-5
			7-38	Fine sand, sand, loamy fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
			38-60	Sand, loamy fine sand, fine sand	SC-SM, SM, SP-SM	A-2, A-3	0	0	95-100	90-100	65-90	5-35	0-20	NP-5
StB—St. Clair loam, 2 to 6 percent slopes														
St. clair	90	D	0-8	Loam	CL	A-6	0	0-5	95-100	75-100	70-100	50-80	30-40	10-15
			8-18	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	75-100	75-100	70-95	40-65	20-40
			18-42	Clay, clay loam, silty clay loam	CL	A-7, A-6	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
			42-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
StC2—St. Clair loam, 6 to 12 percent slopes, eroded														
St. clair	90	D	0-8	Loam	CL	A-6	0	0-5	95-100	75-100	70-100	50-80	30-40	10-15
			8-18	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	75-100	75-100	70-95	40-65	20-40
			18-42	Clay, clay loam, silty clay loam	CL	A-7, A-6	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
			42-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SuB2--St. Clair silty clay loam, 2 to 6 percent slopes, eroded														
St. clair	100	D	0-8	Silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	70-95	35-50	15-25
			8-18	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	75-100	75-100	70-95	40-65	20-40
			18-42	Clay, clay loam, silty clay loam	CL	A-7, A-6	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
			42-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
SuC2--St. Clair silty clay loam, 6 to 12 percent slopes, eroded														
St. clair	90	D	0-8	Silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	70-95	35-50	15-25
			8-18	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	75-100	75-100	70-95	40-65	20-40
			18-42	Clay, clay loam, silty clay loam	CL	A-7, A-6	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
			42-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
SuD2--St. Clair silty clay loam, 12 to 18 percent slopes, eroded														
St. clair	90	D	0-8	Silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	70-95	35-50	15-25
			8-18	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	75-100	75-100	70-95	40-65	20-40
			18-42	Clay, clay loam, silty clay loam	CL	A-7, A-6	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
			42-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
SuE2--St. Clair silty clay loam, 18 to 25 percent slopes, eroded														
St. clair	90	D	0-8	Silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	70-95	35-50	15-25
			8-18	Clay, silty clay	CH, CL	A-7	0	0-5	95-100	75-100	75-100	70-95	40-65	20-40
			18-42	Clay, clay loam, silty clay loam	CL	A-7, A-6	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
			42-60	Clay loam, clay, silty clay loam	CL	A-6, A-7	0	0-5	95-100	75-100	70-100	65-95	35-50	15-25
TeA--Tedrow loamy fine sand, 0 to 2 percent slopes														
Tedrow	90	A/D	0-8	Loamy fine sand	SM, SC-SM	A-2	0	0	100	95-100	60-80	20-35	0-20	NP-5
			8-47	Loamy fine sand, loamy sand, fine sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	95-100	35-90	5-35	0-20	NP-5
			47-60	Sand, fine sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	95-100	50-90	5-35	0-20	NP-5
TeB--Tedrow loamy fine sand, 2 to 6 percent slopes														
Tedrow	100	A/D	0-8	Loamy fine sand	SC-SM, SM	A-2	0	0	100	95-100	60-80	20-35	0-20	NP-5
			8-47	Loamy fine sand, loamy sand, fine sand	SM, SC-SM, SP-SM	A-2, A-3	0	0	100	95-100	35-90	5-35	0-20	NP-5
			47-60	Sand, fine sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	95-100	50-90	5-35	0-20	NP-5

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
TfA--Tedrow-Urban land complex, 0 to 2 percent slopes														
Tedrow	60	A/D	0-8	Loamy fine sand	SC-SM, SM	A-2	0	0	100	95-100	60-80	20-35	0-20	NP-5
			8-47	Loamy fine sand, loamy sand, fine sand	SM, SC-SM, SP-SM	A-2, A-3	0	0	100	95-100	35-90	5-35	0-20	NP-5
			47-60	Sand, fine sand	SP-SM, SM, SC-SM	A-2, A-3	0	0	100	95-100	50-90	5-35	0-20	NP-5
TpA--Toledo silty clay loam, 0 to 1 percent slopes														
Toledo	90	C/D	0-9	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-100	35-50	15-25
			9-57	Silty clay, clay	CH, CL	A-7	0	0	100	100	95-100	80-100	45-65	20-40
			57-60	Silty clay, clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	80-100	40-65	20-40



Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
TsA--Toussaint silty clay loam, 0 to 1 percent slopes														
Toussaint	98	C/D	0-8	Silty clay loam	CL, ML	A-7-5	0-1	0-1	97-100	93-100	85-100	73-90	45-66	21-30
			8-16	Clay, silty clay, silty clay loam, clay loam	CH, CL	A-7-6	0-2	0-2	94-100	88-100	82-100	72-95	47-63	27-37
			16-34	Silty clay, clay, silty clay loam, clay loam	CL, CH	A-7-6	0-2	0-2	94-100	88-100	81-100	70-94	47-62	27-38
			34-52	Silty clay, clay, silty clay loam, clay loam	CL, CH	A-7-6	0-3	0-3	95-100	90-100	81-100	69-91	42-56	22-32
			52-80	Silty clay, clay, silty clay loam, clay loam	CL	A-7-6, A-6	0-2	0-2	95-100	91-100	80-98	67-87	37-52	19-30
TuA--Toledo-Urban land complex, 0 to 1 percent slopes														
Toledo	55	C/D	0-9	Silty clay loam	CL	A-6, A-7	0	0	100	100	90-100	80-100	35-50	15-25
			9-57	Silty clay, clay	CH, CL	A-7	0	0	100	100	95-100	80-100	45-65	20-40
			57-60	Silty clay, clay, silty clay loam	CH, CL	A-7	0	0	100	100	95-100	80-100	40-65	20-40
WbA--Wabasha silty clay, 0 to 1 percent slopes, frequently flooded														
Wabasha	90	C/D	0-9	Silty clay	CH, CL	A-7	0	0	100	95-100	90-100	85-100	45-55	25-30
			9-50	Silty clay, clay	CH, CL	A-7	0	0	100	90-100	85-100	80-100	45-65	25-35
			50-60	Silty clay, clay, silty clay loam	CH, CL	A-7	0	0	100	90-100	85-100	80-100	40-65	20-35

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
WmA--Wauseon loamy fine sand, 0 to 1 percent slopes														
Wauseon	90	C/D	0-11	Loamy fine sand	ML, SM, SC-SM, SC, CL-ML, CL	A-2, A-4	0	0	100	95-100	50-85	20-55	0-25	NP-10
			11-30	Loamy fine sand, fine sandy loam, sandy loam	SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	65-95	20-45	0-30	NP-10
			30-60	Clay, silty clay loam, clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
WnA--Wauseon fine sandy loam, deep to till, 0 to 1 percent slopes														
Wauseon, deep to till	90	A/D	0-8	Fine sandy loam	ML, CL, CL-ML, SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	60-85	30-55	0-30	NP-10
			8-34	Loamy fine sand, fine sandy loam, sandy loam	SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	65-95	20-45	0-30	NP-10
			34-59	Loamy fine sand, sandy loam, fine sandy loam	SM, SP, SP-SM, SC-SM	A-2, A-3	0	0	100	95-100	50-70	0-35	0-20	NP-5
			59-60	Clay, silty clay loam, clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

Engineering Properties--Wood County, Ohio														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
WyA--Wauseon fine sandy loam, 0 to 1 percent slopes														
Wauseon	90	C/D	0-11	Fine sandy loam	CL, CL-ML, ML, SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	60-85	30-55	0-30	NP-10
			11-30	Loamy fine sand, fine sandy loam, sandy loam	SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	65-95	20-45	0-30	NP-10
			30-60	Clay, silty clay loam, clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25
WzA--Wauseon-Urban land complex, 0 to 1 percent slopes														
Wauseon	55	C/D	0-11	Fine sandy loam	ML, CL, CL-ML, SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	60-85	30-55	0-30	NP-10
			11-30	Loamy fine sand, fine sandy loam, sandy loam	SM, SC-SM, SC	A-2, A-4	0	0	100	95-100	65-95	20-45	0-30	NP-10
			30-60	Clay, silty clay loam, clay loam	CL	A-6, A-7	0	0-5	95-100	85-100	80-100	65-95	35-50	15-25

## Data Source Information

Soil Survey Area: Wood County, Ohio  
 Survey Area Data: Version 16, Sep 19, 2014