Niagara

Sw, ElB, AnA, Mf, Cs, OsA, OsD, PsA

GUIDE TO MAPPING UNITS

To obtain a complete description of a mapping unit, it is necessary to read the description of the mapping unit and the description of the soil series to which it belongs. In referring to a capability unit or a woodland group, read the introduction to the section it is in for general information about its management. Other information in this soil survey is in tables as follows:

Estimated yields, tables 1, 2, and 3 pp. 27 through 36.
Woodland, table 4, page 38.
Wildlife, table 5, page 43.

Engineering uses of soils, tables 6, 7, and 8, pp. 48 through 97.
Nonfarm uses of soils, table 9, page 100.

Map symbol	Mapping units	Described on page	Capability unit		Woodland group	
			Symbol	Page	Symbol	Page
Ad	Alluvial land	122	Vw-1 3	25	---	---
Af	Altmar loamy fine sand	123	IIw-1 3	19	4s1	40
Am	Altmar gravelly fine sandy loam	123	IIw-1 3	19	4s1	40
AnA	Appleton gravelly loam, 0 to 3 percent slopes	124	IIIw-1 3	21	3w2	40
ApA	Appleton silt loam, 0 to 3 percent slopes	124	IIIw-1 3	21	3w2	40
ArB	Arkport very fine sandy loam, 0 to 6 percent slopes	125	IIs-2 2	18	2o1	38
ArC	Arkport very fine sandy loam, 6 to 12 percent slopes	126	IIIe-3 2	20	2o1	38
AsA	Arkport fine sandy loam, gravelly substratum, 0 to 2 percent slopes	126	IIs-1 3	18	2o1	38
AsB	Arkport fine sandy loam, gravelly substratum, 2 to 6 percent slopes	126	IIs-2 2	18	2o1	38
BoA	Bombay fine sandy loam, 0 to 2 percent slopes	127	IIw-2 3	19	3o1	38
BoB	Bombay fine sandy loam, 2 to 6 percent slopes	127	IIe-3 2	17	3o1	38
BrA	Brockport silt loam, 0 to 4 percent slopes	129	IIIw-2 2	22	3w1	40
Ca	Canandaigua silt loam	129	IIIw-3 3	22	4w1	40
Cb	Canandaigua silty clay loam	130	IIIw-3 3	22	4w1	40
CcA	Cayuga and Cazenovia silt loams, 0 to 2 percent slopes	131	IIw-2 3	19	2o1	38
CcB	Cayuga and Cazenovia silt loams, 2 to 6 percent slopes	131	IIe-3 2	17	2o1	38
CcC	Cayuga and Cazenovia silt loams, 6 to 12 percent slopes	131	IIIe-1 2	20	2o1	38
CeA	Cazenovia gravelly silt loam, 0 to 3 percent slopes	132	IIw-2 3	19	2o1	38
CeB	Cazenovia gravelly silt loam, 3 to 8 percent slopes	132	IIe-3 2	17	2o1	38
CgA	Cazenovia gravelly silt loam, shale substratum, 0 to 3 percent slopes	133	IIw-2 3	19	2o1	38
CgB	Cazenovia gravelly silt loam, shale substratum, 3 to 8 percent slopes	133	IIe-3 2	17	2o1	38
Ch	Cheektowaga fine sandy loam	134	IIIw-3 3	22	5w1	40
ClA	Churchville silt loam, 0 to 2 percent slopes	135	IIIw-2 3	22	3w1	40
ClB	Churchville silt loam, 2 to 6 percent slopes	135	IIIw-5 2	23	3w1	40
CmA	Claverack loamy fine sand, 0 to 2 percent slopes	136	IIw-1 3	19	3s1	40
CmB	Claverack loamy fine sand, 2 to 6 percent slopes	136	IIw-1 2	19	3s1	40
CnA	Collamer silt loam, 0 to 2 percent slopes	138	IIw-2 3	19	2o1	38
CnB	Collamer silt loam, 2 to 6 percent slopes	138	IIe-2 2	17	2o1	38
CoB	Colonie loamy fine sand, 0 to 6 percent slopes	139	IIIs-1 3	21	4s1	40
Cs	Cosad fine sandy loam	140	IIIw-4 3	23	4w1	40
Cu	Cut and fill land	140	------	---	---	---
DuB	Dunkirk silt loam, 2 to 6 percent slopes	141	IIe-2 2	17	2o1	38
DuC3	Dunkirk silt loam, 6 to 12 percent slopes, eroded	141	IVe-2 2	24	2r1	38
DvD3	Dunkirk and Arkport soils, 12 to 20 percent slopes, eroded	142	VIe-1 1	25	2r3	38
ElA	Elnora loamy fine sand, 0 to 2 percent slopes	143	IIw-1 3	19	4s1	40
ElB	Elnora loamy fine sand, 2 to 6 percent slopes	143	IIw-1 3	19	4s1	40
FaA	Farmington silt loam, 0 to 8 percent slopes	144	IIIs-2 2	21	5d1	40
Fo	Fonda mucky silt loam	145	IVw-1 3	24	5w1	40
Fr	Fredon gravelly loam	146	IIIw-1 3	21	3w2	40
GnA	Galen very fine sandy loam, 0 to 2 percent slopes	147	IIw-1 3	19	2o1	38
GnB	Galen very fine sandy loam, 2 to 6 percent slopes	147	IIw-1 2	19	2o1	[illegible]
Ha	Hamlin silt loam	148	IIw-3 3	19	2o2	[illegible]
HgA	Hilton gravelly loam, 0 to 3 percent slopes	150	IIw-2 3	19	2o1	[illegible]
HgB	Hilton gravelly loam, 3 to 8 percent slopes	150	IIe-3 2	17	2o1	[illegible]

U.S. GOVERNMENT PRINTING OFFICE : 1972 O - 459-901

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GUIDE TO MAPPING UNITS--Continued

Map symbol	Mapping unit	Described on page	Capability unit		Woodland group	
			Symbol	Page	Symbol	Page
HlA	Hilton silt loam, 0 to 3 percent slopes	150	IIw-2 3	19	2o1	38
HlB	Hilton silt loam, 3 to 8 percent slopes	150	IIe-3 2	17	2o1	38
HmA	Hilton and Cayuga silt loams, limestone substratum, 0 to 3 percent slopes	151	IIw-2 3	19	2o1	38
HmB	Hilton and Cayuga silt loams, limestone substratum, 3 to 8 percent slopes	151	IIe-3 2	17	2o1	38
HoA	Howard gravelly loam, 0 to 3 percent slopes	152	IIs-1 3	18	2o1	38
HoB	Howard gravelly loam, 3 to 8 percent slopes	152	IIs-2 2	18	2o1	38
HoC	Howard gravelly loam, 8 to 15 percent slopes	153	IIIe-2 2	20	2o1	38
HsB	Hudson silt loam, 2 to 6 percent slopes	154	IIe-2 2	17	2o1	38
HtC3	Hudson silty clay loam, 6 to 12 percent slopes, eroded	154	IVe-2 2	24	2r1	38
HuF3	Hudson soils, 20 to 45 percent slopes, eroded	154	VIe-1 1	25	2r3	38
LaB	Lairdsville silt loam, 0 to 6 percent slopes	155	IIe-4 2	17	3o1	38
Lc	Lakemont silty clay loam	156	IVw-1 3	24	5w1	40
Ld	Lamson very fine sandy loam	158	IIIw-3 3	22	4w1	40
Lg	Lamson fine sandy loam, gravelly substratum	158	IIIw-3 3	22	4w1	40
Lo	Lockport silt loam	159	IIIw-2 3	22	3w1	40
Ma	Madalin silt loam	161	IVw-1 3	24	5w1	40
Md	Madalin silt loam, loamy subsoil variant	162	IVw-1 3	24	5w1	40
Me	Made land	162	-----	--	---	---
Mf	Massena fine sandy loam	163	IIIw-1 3	21	3w2	40
Mn	Minoa very fine sandy loam	164	IIIw-1 3	21	3w2	40
Ms	Muck, shallow	165	IVw-2 3	24	---	---
NaA	Niagara silt loam, 0 to 2 percent slopes	166	IIIw-1 3	21	3w2	40
NaB	Niagara silt loam, 2 to 6 percent slopes	166	IIIw-5 2	23	3w2	40
OdA	Odessa silty clay loam, 0 to 2 percent slopes	167	IIIw-2 3	22	3w1	40
OdB	Odessa silty clay loam, 2 to 6 percent slopes	167	IIIw-5 2	23	3w1	40
OnB	Ontario loam, 2 to 8 percent slopes	169	IIe-1 2	16	2o1	38
OnC	Ontario loam, 8 to 15 percent slopes	169	IIIe-1 2	20	2o1	38
OnC3	Ontario loam, 8 to 15 percent slopes, eroded	169	IVe-1 2	23	2o1	38
OnD3	Ontario loam, 15 to 30 percent slopes, eroded	169	VIe-1 1	25	2r2	38
OoA	Ontario loam, limestone substratum, 0 to 3 percent slopes	170	I-1 3	16	2o1	38
OoB	Ontario loam, limestone substratum, 3 to 8 percent slopes	170	IIe-1 2	16	2o1	38
OsA	Otisville gravelly sandy loam, 0 to 3 percent slopes	171	IIIs-1 3	21	4s1	40
OsB	Otisville gravelly sandy loam, 3 to 8 percent slopes	171	IIIs-1 2	21	4s1	40
OvA	Ovid silt loam, 0 to 2 percent slopes	172	IIIw-1 3	21	3w2	40
OvB	Ovid silt loam, 2 to 6 percent slopes	173	IIIw-5 2	23	3w2	40
OwA	Ovid silt loam, limestone substratum, 0 to 3 percent slopes	173	IIIw-1 3	21	3w2	40
OwB	Ovid silt loam, limestone substratum, 3 to 8 percent slopes	173	IIIw-5 2	23	3w2	40
PsA	Phelps gravelly loam, 0 to 5 percent slopes	174	IIw-2 2	19	2o1	38
RaA	Raynham silt loam, 0 to 2 percent slopes	175	IIIw-1 3	21	3w2	40
RaB	Raynham silt loam, 2 to 6 percent slopes	176	IIIw-5 2	23	3w2	40
RbA	Rhinebeck silt loam, 0 to 2 percent slopes	177	IIIw-2 3	22	3w1	40
RbB	Rhinebeck silt loam, 2 to 6 percent slopes	177	IIIw-5 2	23	3w1	40
RhA	Rhinebeck silty clay loam, sandy substratum, 0 to 2 percent slopes	177	IIIw-2 3	22	3w1	40
RhB	Rhinebeck silty clay loam, sandy substratum, 2 to 6 percent slopes	178	IIIw-5 2	23	3w1	40
Rk	Rhinebeck silt loam, thick surface variant	179	IIIw-2 3	22	3w1	40
RoA	Rock land, nearly level	179	VIIIs-1 3	25	---	---
RoF	Rockland, steep	179	VIIIs-1	25	---	---
ShB	Schoharie silty clay loam, 2 to 6 percent slopes	181	IIe-4 2	17	2o1	38
St	Stafford loamy fine sand	182	IIIw-4 3	23	4w1	40
Su	Stafford loamy fine sand, gravelly substratum	182	IIIw-4 3	23	4w1	40
Sw	Sun silt loam	183	IVw-1 3	24	4w1	40
Wa	Wayland silt loam	184	IIIw-6 3	23	4w1	40

Niagara County

SOIL LEGEND

The first capital letter is the initial one of the soil name. A second capital letter, A, B, C, D, E, or F, is a general guide to the slope class. Symbols without a slope letter are for those soils or miscellaneous land types where slope is not significant to use and management. A final number 3, in the symbol indicates that the soil is eroded.

SYMBOL	NAME
3 Ad	Alluvial land
3 Af	Altmar loamy fine sand
3 Am	Altmar gravelly fine sandy loam
3 AnA	Appleton gravelly loam, 0 to 3 percent slopes
3 ApA	Appleton silt loam, 0 to 3 percent slopes
2 ArB	Arkport very fine sandy loam, 0 to 6 percent slopes
2 ArC	Arkport very fine sandy loam, 6 to 12 percent slopes
3 AsA	Arkport fine sandy loam, gravelly substratum, 0 to 2 percent slopes
2 AsB	Arkport fine sandy loam, gravelly substratum, 2 to 6 percent slopes
3 BoA	Bombay fine sandy loam, 0 to 2 percent slopes
2 BoB	Bombay fine sandy loam, 2 to 6 percent slopes
2 BrA	Brockport silt loam, 0 to 4 percent slopes
3 Ca	Canandaigua silt loam
3 Cb	Canandaigua silty clay loam
3 CcA	Cayuga and Cazenovia silt loams, 0 to 2 percent slopes
2 CcB	Cayuga and Cazenovia silt loams, 2 to 6 percent slopes
2 CcC	Cayuga and Cazenovia silt loams, 6 to 12 percent slopes
3 CeA	Cazenovia gravelly silt loam, 0 to 3 percent slopes
2 CeB	Cazenovia gravelly silt loam, 3 to 8 percent slopes
3 CgA	Cazenovia gravelly silt loam, shale substratum, 0 to 3 percent slopes
2 CgB	Cazenovia gravelly silt loam, shale substratum, 3 to 8 percent slopes
3 Ch	Cheektowaga fine sandy loam
3 ClA	Churchville silt loam, 0 to 2 percent slopes
2 ClB	Churchville silt loam, 2 to 6 percent slopes
3 CmA	Claverack loamy fine sand, 0 to 2 percent slopes
2 CmB	Claverack loamy fine sand, 2 to 6 percent slopes
3 CnA	Collamer silt loam, 0 to 2 percent slopes
2 CnB	Collamer silt loam, 2 to 6 percent slopes
3 CoB	Colonie loamy fine sand, 0 to 6 percent slopes
3 Cs	Cosad fine sandy loam
Cu	Cut and fill land
2 DuB	Dunkirk silt loam, 2 to 6 percent slopes
2 DuC3	Dunkirk silt loam, 6 to 12 percent slopes, eroded
1 DvD3	Dunkirk and Arkport soils, 12 to 20 percent slopes, eroded
3 ElA	Elnora loamy fine sand, 0 to 2 percent slopes
3 ElB	Elnora loamy fine sand, 2 to 6 percent slopes
2 FaA	Farmington silt loam, 0 to 8 percent slopes
3 Fo	Fonda mucky silt loam
3 Fr	Fredon gravelly loam
3 GnA	Galen very fine sandy loam, 0 to 2 percent slopes
2 GnB	Galen very fine sandy loam, 2 to 6 percent slopes
3 Ha	Hamlin silt loam
3 HgA	Hilton gravelly loam, 0 to 3 percent slopes
2 HgB	Hilton gravelly loam, 3 to 8 percent slopes
3 HlA	Hilton silt loam, 0 to 3 percent slopes
2 HlB	Hilton silt loam, 3 to 8 percent slopes
3 HmA	Hilton and Cayuga silt loams, limestone substratum, 0 to 3 percent slopes
2 HmB	Hilton and Cayuga silt loams, limestone substratum, 3 to 8 percent slopes
3 HoA	Howard gravelly loam, 0 to 3 percent slopes
2 HoB	Howard gravelly loam, 3 to 8 percent slopes
2 HoC	Howard gravelly loam, 8 to 15 percent slopes
2 HsB	Hudson silt loam, 2 to 6 percent slopes
2 HtC3	Hudson silty clay loam, 6 to 12 percent slopes, eroded
1 HuF3	Hudson soils, 20 to 45 percent slopes, eroded
2 LoB	Lairdsville silt loam, 0 to 6 percent slopes
3 Lc	Lakemont silty clay loam
3 Ld	Lamson very fine sandy loam
3 Lg	Lamson fine sandy loam, gravelly substratum
3 Lo	Lockport silt loam
3 Ma	Madalin silt loam
3 Md	Madalin silt loam, loamy subsoil variant
Me	Made land
3 Mf	Massena fine sandy loam
3 Mn	Minoa very fine sandy loam
3 Ms	Muck, shallow
3 NoA	Niagara silt loam, 0 to 2 percent slopes
2 NoB	Niagara silt loam, 2 to 6 percent slopes
3 OdA	Odessa silty clay loam, 0 to 2 percent slopes
2 OdB	Odessa silty clay loam, 2 to 6 percent slopes
2 OnB	Ontario loam, 2 to 8 percent slopes
2 OnC	Ontario loam, 8 to 15 percent slopes
2 OnC3	Ontario loam, 8 to 15 percent slopes, eroded
1 OnD3	Ontario loam, 15 to 30 percent slopes, eroded
3 OoA	Ontario loam, limestone substratum, 0 to 3 percent slopes
2 OoB	Ontario loam, limestone substratum, 3 to 8 percent slopes
3 OsA	Otisville gravelly sandy loam, 0 to 3 percent slopes
2 OsB	Otisville gravelly sandy loam, 3 to 8 percent slopes
3 OvA	Ovid silt loam, 0 to 2 percent slopes
2 OvB	Ovid silt loam, 2 to 6 percent slopes
3 OwA	Ovid silt loam, limestone substratum, 0 to 3 percent slopes
2 OwB	Ovid silt loam, limestone substratum, 3 to 8 percent slopes
2 PsA	Phelps gravelly loam, 0 to 5 percent slopes
3 RaA	Raynham silt loam, 0 to 2 percent slopes
2 RaB	Raynham silt loam, 2 to 6 percent slopes
3 RbA	Rhinebeck silt loam, 0 to 2 percent slopes
2 RbB	Rhinebeck silt loam, 2 to 6 percent slopes
3 RhA	Rhinebeck silty clay loam, sandy substratum, 0 to 2 percent slopes
2 RhB	Rhinebeck silty clay loam, sandy substratum, 2 to 6 percent slopes
3 Rk	Rhinebeck silt loam, thick surface variant
3 RoA	Rock land, nearly level
3 RoF	Rock land, steep
2 ShB	Schoharie silty clay loam, 2 to 6 percent slopes
3 St	Stafford loamy fine sand
3 Su	Stafford loamy fine sand, gravelly substratum
3 Sw	Sun silt loam
3 Wa	Wayland silt loam

WC

Highways and r

Dual .....

Good motor

Poor motor ..

Trail .....

Highway marker.

National Inter

U. S. .....

State or cour

Railroads

Single track

Multiple tract

Abandoned .

Bridges and cro

Road .....

Trail .....

Railroad ....

Ferry .....

Ford .....

Grade .....

R. R. over ..

R. R. under

Tunnel .....

Buildings .....

School .....

Church .....

Mine and quarry

Gravel pit .....

Power line ....

Pipeline .....

Cemetery .....

Dams .....

Levee .....

Tanks .....

Well, oil or gas

Forest fire or lo

Windmill .....