Local Roads and Streets

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
1A	Fluvaquents-Udifluvents complex, 0 to 3 percent slopes, frequently flooded	Very limited	Fluvaquents, frequently flooded 45% Depth to saturated zone Frost action Flooding Udifluvents, frequently flooded 40% Flooding Frost action Depth to saturated zone Wayland 10% Depth to saturated zone Frost action Flooding Low strength Naples Creek 5% Frost action Flooding Depth to saturated zone Low strength
2A	Geneseo silty clay loam, 0 to 3 percent slopes	Very limited	Geneseo 90% Frost action Flooding Low strength Naples Creek 10% Frost action Flooding Depth to saturated zone Low strength
3A	Hemlock silty clay loam, 0 to 3 percent slopes	Very limited	Hemlock 90% Frost action Flooding Low strength Depth to saturated zone Naples Creek 10% Frost action Flooding Depth to saturated zone Low strength
4A	Naples Creek silty clay loam, 0 to 3 percent slopes	Very limited	Naples Creek 90% Frost action Flooding Depth to saturated zone Low strength Wayland 5% Depth to saturated zone Frost action Flooding Low strength Hemlock 5% Frost action Flooding Low strength Depth to saturated zone

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5A	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Very limited	Wayland 60% Depth to saturated zone Frost action Flooding Low strength Wayland, very poorly drained 30% Ponding Depth to saturated zone Frost action Flooding Low strength Wakeville 10% Frost action Flooding Depth to saturated zone
12D	Rockrift channery silt loam, 15 to 25 percent slopes	Very limited	Rockrift 85% Slope Frost action Large stones Mongaup, very stony 10% Slope Depth to hard bedrock Frost action Willdin 5% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan
13F	Rock outcrop-Arnot complex, 25 to 70 percent slopes	Not rated	Rock outcrop 55%
14D	Cadosia channery silt loam, 15 to 25 percent slopes	Very limited	Cadosia 85% Slope Frost action Large stones Lordstown, very stony 10% Slope Depth to hard bedrock Frost action Mardin 5% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan
15A	Guyanoga channery silt loam, fan, 0 to 3 percent slopes	Somewhat limited	Guyanoga, fan 90% Frost action Flooding Large stones Chenango, fan 5% Frost action Flooding
15B	Guyanoga channery silt loam, fan, 3 to 8 percent slopes	Somewhat limited	Guyanoga, fan 90% Frost action Flooding Large stones Chenango, fan 5% Frost action Flooding

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
16A	Almond channery silt loam, 0 to 3 percent slopes	Very limited	Almond 80% Depth to saturated zone Frost action Low strength Norchip 8% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Ontusia 7% Depth to saturated zone Depth to thin cemented pan Frost action Gretor 5% Frost action Depth to saturated zone Depth to hard bedrock Low strength
16B	Almond channery silt loam, 3 to 8 percent slopes	Very limited	Almond 80% Depth to saturated zone Frost action Low strength Gretor 5% Frost action Depth to saturated zone Depth to hard bedrock Slope Low strength Ontusia 5% Depth to saturated zone Depth to thin cemented pan Frost action Norchip 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
16C	Almond channery silt loam, 8 to 15 percent slopes	Very limited	Almond 80% Depth to saturated zone Frost action Slope Low strength Salamanca 5% Slope Depth to saturated zone Low strength Frost action Norchip 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Ontusia 5% Depth to saturated zone Depth to thin cemented pan Frost action Slope Gretor 5% Slope Frost action Depth to saturated zone Depth to hard bedrock Low strength
18A	Homer fine sandy loam, 0 to 3 percent slopes	Very limited	Homer 90% Frost action Depth to saturated zone Phelps 5% Frost action Depth to saturated zone Low strength Fine-loamy, mixed, active, mesic Typic Argiaquolls 5% Depth to saturated zone Frost action Low strength
19A	Fine-loamy, mixed, active, mesic, Typic Argiaquolls, 0 to 3 percent slopes	Very limited	Fine-loamy, mixed, active, mesic Typic Argiaquolls 80% Ponding Depth to saturated zone Frost action Low strength Homer 8% Frost action Depth to saturated zone Atherton 7% Depth to saturated zone Frost action Palms, undrained 5% Ponding Depth to saturated zone Frost action Low strength Subsidence

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
20A	Atherton and Fine-loamy, mixed, active, mesic, Typic Argiaquolls, 0 to 3 percent slopes	Very limited	Atherton 41% Depth to saturated zone Frost action Fine-loamy, mixed, active, mesic Typic Argiaquolls 39% Ponding Depth to saturated zone Frost action Low strength Homer 8% Frost action Depth to saturated zone Canandaigua 7% Depth to saturated zone Frost action Low strength
24A	Howard gravelly loam, 0 to 3 percent slopes	Somewhat limited	Howard 80% Frost action Palmyra 10% Frost action Arkport 5% Frost action
24B	Howard gravelly loam, 3 to 8 percent slopes	Somewhat limited	Howard 80% Frost action Palmyra 10% Frost action Arkport 5% Frost action
24C	Howard gravelly loam, 8 to 15 percent slopes	Somewhat limited	Howard 80% Frost action Slope Palmyra 10% Frost action Slope Arkport 5% Frost action Slope
24D	Howard soils, 15 to 25 percent slopes	Very limited	Howard 65% Slope Frost action Palmyra 20% Slope Frost action Arkport 13% Slope Frost action Phelps 2% Frost action Depth to saturated zone Low strength
25A	Chenango gravelly loam, 0 to 3 percent slopes	Somewhat limited	Chenango 90% Frost action Castile 8% Frost action Depth to saturated zone Valois 2% Frost action

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
25B	Chenango gravelly loam, 3 to 8 percent slopes	Somewhat limited	Chenango 90% Frost action Castile 5% Frost action Depth to saturated zone Valois 5% Frost action
25C	Chenango gravelly loam, 8 to 15 percent slopes	Somewhat limited	Chenango 90% Frost action Slope Castile 5% Frost action Depth to saturated zone Slope Valois 5% Frost action Slope
25D	Chenango gravelly loam, 15 to 25 percent slopes	Very limited	Chenango 90% Slope Frost action Valois 2% Slope Frost action
25E	Chenango gravelly loam, 25 to 35 percent slopes	Very limited	Chenango 90% Slope Frost action Valois 10% Slope Frost action
26B	Chenango channery loam, fan, 3 to 8 percent slopes	Somewhat limited	Chenango, fan 85% Frost action Flooding Guyanoga, fan 5% Frost action Flooding Large stones Castile 5% Frost action Depth to saturated zone
27B	Castile gravelly silt loam, 3 to 8 percent slopes	Somewhat limited	Castile 85% Frost action Depth to saturated zone Chenango 5% Frost action
31A	Collamer silt loam, 0 to 3 percent slopes	Very limited	Collamer 85% Frost action Depth to saturated zone Low strength Niagara 10% Frost action Low strength Depth to saturated zone Schoharie 5% Low strength Frost action Shrink-swell Depth to saturated zone

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
31B	Collamer silt loam, 3 to 8 percent slopes	Very limited	Collamer 85% Frost action Depth to saturated zone Low strength Niagara 10% Frost action Low strength Depth to saturated zone Schoharie 5% Low strength Frost action Shrink-swell Depth to saturated zone
31C	Collamer silt loam, 8 to 15 percent slopes	Very limited	Collamer 85% Frost action Slope Depth to saturated zone Low strength Niagara 10% Frost action Low strength Depth to saturated zone Schoharie 5% Low strength Frost action Shrink-swell Depth to saturated zone Slope
31D	Collamer silt loam, 15 to 25 percent slopes	Very limited	Collamer 90% Slope Frost action Depth to saturated zone Low strength Schoharie 5% Slope Low strength Frost action Shrink-swell Depth to saturated zone Niagara 5% Frost action Low strength Depth to saturated zone Slope
32A	Dunkirk fine sandy loam, 0 to 3 percent slopes	Very limited	Dunkirk 90% Frost action Low strength Schoharie 3% Low strength Frost action Shrink-swell Depth to saturated zone Niagara 3% Frost action Low strength Depth to saturated zone

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32B	Dunkirk fine sandy loam, 3 to 8 percent slopes	Very limited	Dunkirk 90% Frost action Low strength Schoharie 3% Low strength Frost action Shrink-swell Depth to saturated zone Niagara 3% Frost action Low strength Depth to saturated zone
33A	Dunkirk silt loam, 0 to 3 percent slopes	Very limited	Dunkirk 90% Frost action Low strength Niagara 3% Frost action Low strength Depth to saturated zone Schoharie 3% Low strength Frost action Shrink-swell Depth to saturated zone
33B	Dunkirk silt loam, 3 to 8 percent slopes	Very limited	Dunkirk 90% Frost action Low strength Schoharie 3% Low strength Frost action Shrink-swell Depth to saturated zone Niagara 3% Frost action Low strength Depth to saturated zone
33C	Dunkirk silt loam, 8 to 15 percent slopes	Very limited	Dunkirk 90% Frost action Low strength Slope Schoharie 3% Low strength Slope Frost action Shrink-swell Depth to saturated zone Niagara 3% Frost action Low strength Depth to saturated zone

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33D	Dunkirk silt loam, 15 to 25 percent slopes	Very limited	Dunkirk 90% Slope Frost action Low strength Schoharie 5% Slope Low strength Frost action Shrink-swell Depth to saturated zone Arkport 5% Slope Frost action
33E	Dunkirk silt loam, 25 to 35 percent slopes	Very limited	Dunkirk 90% Slope Frost action Low strength Schoharie 5% Slope Low strength Frost action Shrink-swell Depth to saturated zone Arkport 5% Slope Frost action
34A	Lakemont silty clay loam, 0 to 3 percent slopes	Very limited	Lakemont 85% Depth to saturated zone Shrink-swell Frost action Low strength Odessa 5% Depth to saturated zone Shrink-swell Frost action Low strength Fonda 4% Ponding Depth to saturated zone Frost action Low strength Shrink-swell Canandaigua 4% Depth to saturated zone Frost action Low strength Barre 2% Depth to saturated zone Frost action Low strength Shrink-swell

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
35A	Odessa silt loam, 0 to 3 percent slopes	Very limited	Odessa 85% Depth to saturated zone Shrink-swell Frost action Low strength Lakemont 5% Depth to saturated zone Frost action Low strength Shrink-swell Schoharie 5% Low strength Shrink-swell Frost action Churchville 3% Depth to saturated zone Shrink-swell Frost action Soluble bedrock Low strength Rhinebeck 2% Frost action Low strength Depth to saturated zone Shrink-swell
35B	Odessa silty clay loam, 3 to 8 percent slopes	Very limited	Odessa 85% Depth to saturated zone Shrink-swell Frost action Low strength Schoharie 6% Low strength Shrink-swell Frost action Lakemont 4% Depth to saturated zone Shrink-swell Frost action Low strength Churchville 3% Depth to saturated zone Shrink-swell Frost action Soluble bedrock Low strength Rhinebeck 2% Frost action Low strength Depth to saturated zone Shrink-swell

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
36A	Schoharie silty clay loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Low strength Shrink-swell Frost action Odessa 5% Depth to saturated zone Shrink-swell Frost action Low strength Collamer 2% Frost action Depth to saturated zone
36B	Schoharie silty clay loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Low strength Shrink-swell Frost action Odessa 5% Depth to saturated zone Shrink-swell Frost action Low strength Collamer 2% Frost action Depth to saturated zone
36C	Schoharie silty clay loam, 8 to 15 percent slopes	Very limited	Schoharie 85% Low strength Shrink-swell Frost action Slope Odessa 5% Depth to saturated zone Shrink-swell Frost action Low strength Slope Collamer 2% Frost action Depth to saturated zone Slope

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
36D	Schoharie silty clay loam, 15 to 25 percent slopes	Very limited	Schoharie 85% Slope Low strength Shrink-swell Frost action Cazenovia 5% Slope Frost action Depth to saturated zone Shrink-swell Odessa 5% Slope Depth to saturated zone Shrink-swell Frost action Low strength Cayuga 3% Slope Frost action Depth to saturated zone Collamer 2% Slope Frost action Depth to saturated zone
36E	Schoharie silty clay loam, 25 to 45 percent slopes	Very limited	Schoharie 85% Slope Low strength Shrink-swell Frost action Odessa 5% Slope Depth to saturated zone Shrink-swell Frost action Low strength Cazenovia 5% Slope Frost action Depth to saturated zone Shrink-swell Cayuga 3% Slope Frost action Depth to saturated zone Collamer 2% Slope Frost action Depth to saturated zone
37A	Schoharie silt loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Low strength Shrink-swell Frost action Odessa 5% Depth to saturated zone Shrink-swell Frost action Low strength Collamer 2% Frost action Depth to saturated zone

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37B	Schoharie silt loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Low strength Shrink-swell Frost action Odessa 5% Depth to saturated zone Shrink-swell Frost action Low strength Collamer 2% Frost action Depth to saturated zone
38A	Niagara silt loam, 0 to 3 percent slopes	Very limited	Niagara 85% Frost action Low strength Depth to saturated zone Canandaigua 5% Depth to saturated zone Frost action Low strength Rhinebeck 5% Frost action Low strength Depth to saturated zone Shrink-swell Collamer 5% Frost action Depth to saturated zone Low strength
38B	Niagara silt loam, 3 to 8 percent slopes	Very limited	Niagara 85% Frost action Low strength Depth to saturated zone Canandaigua 5% Depth to saturated zone Frost action Low strength Rhinebeck 5% Frost action Low strength Depth to saturated zone Shrink-swell Collamer 5% Frost action Depth to saturated zone Low strength
39A	Rhinebeck silty clay loam, 0 to 3 percent slopes	Very limited	Rhinebeck 90% Frost action Low strength Depth to saturated zone Shrink-swell Lakemont 5% Depth to saturated zone Low strength Frost action Shrink-swell Niagara 5% Frost action Low strength Depth to saturated zone

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
41A	Aeric Epiaquepts, 0 to 3 percent slopes	Very limited	Aeric Epiaquepts 50% Depth to saturated zone Frost action Shrink-swell Low strength Aeric Epiaquepts 45% Depth to saturated zone Frost action Shrink-swell Low strength
43A	Canandaigua silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Depth to saturated zone Frost action Low strength Canandaigua 4% Ponding Depth to saturated zone Frost action Low strength Lakemont 3% Depth to saturated zone Low strength Frost action Shrink-swell Niagara 3% Frost action Low strength Depth to saturated zone
44A	Canandaigua mucky silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Ponding Depth to saturated zone Frost action Low strength Canandaigua 5% Depth to saturated zone Frost action Low strength Lakemont 3% Depth to saturated zone Low strength Frost action Shrink-swell Palms, undrained 2% Ponding Depth to saturated zone Frost action Low strength Subsidence

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
45A	Fonda mucky silt loam, 0 to 3 percent slopes	Very limited	Fonda 95% Ponding Depth to saturated zone Frost action Low strength Shrink-swell Canandaigua 3% Ponding Depth to saturated zone Frost action Low strength Palms, undrained 2% Ponding Depth to saturated zone Frost action Low strength Subsidence
46A	Galen fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Galen 90% Depth to saturated zone Frost action
46B	Galen fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Galen 90% Depth to saturated zone Frost action
48A	Arkport fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Arkport 95% Frost action Galen 2% Depth to saturated zone Frost action
48B	Arkport fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Frost action Galen 2% Depth to saturated zone Frost action
48C	Arkport fine sandy loam, 8 to 15 percent slopes	Somewhat limited	Arkport 95% Slope Frost action Galen 2% Depth to saturated zone Frost action
48D	Arkport fine sandy loam, 15 to 25 percent slopes	Very limited	Arkport 90% Slope Frost action Dunkirk 8% Slope Frost action Low strength Palmyra 2% Slope Frost action
49B	Arkport loamy fine sand, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Frost action Galen 2% Depth to saturated zone Frost action

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49D	Arkport loamy fine sand, 15 to 25 percent slopes	Very limited	Arkport 95% Slope Frost action Dunkirk 3% Slope Frost action Low strength Palmyra 2% Slope Frost action
49E	Arkport loamy fine sand, 25 to 35 percent slopes	Very limited	Arkport 90% Slope Frost action Dunkirk 8% Slope Frost action Low strength Palmyra 2% Slope Frost action
49F	Arkport loamy fine sand, 35 to 55 percent slopes	Very limited	Arkport 90% Slope Frost action Dunkirk 8% Slope Frost action Low strength Palmyra 2% Slope Frost action
50B	Dunkirk-Arkport complex, 3 to 8 percent slopes	Very limited	Dunkirk 50% Frost action Low strength Collamer 5% Frost action Depth to saturated zone Low strength
50C	Dunkirk-Arkport complex, 8 to 15 percent slopes	Very limited	Dunkirk 60% Frost action Low strength Slope Collamer 5% Frost action Slope Depth to saturated zone Low strength
50D	Dunkirk-Arkport complex, 15 to 25 percent slopes	Very limited	Dunkirk 60% Slope Frost action Low strength Arkport 35% Slope Frost action Collamer 5% Slope Frost action Depth to saturated zone Low strength

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53A	Lamson fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Depth to saturated zone Frost action Lamson 5% Ponding Depth to saturated zone Frost action Canandaigua 3% Depth to saturated zone Frost action Low strength
54A	Lamson mucky fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Ponding Depth to saturated zone Frost action Canandaigua 5% Depth to saturated zone Frost action Low strength Lamson 5% Depth to saturated zone Frost action
56A	Elnora loamy fine sand, 0 to 3 percent slopes	Somewhat limited	Elnora 90% Frost action Depth to saturated zone
58B	Colonie loamy fine sand, 3 to 8 percent slopes	Not limited	Colonie 95%
58C	Colonie loamy fine sand, 8 to 15 percent slopes	Somewhat limited	Colonie 95% Slope Elnora 5% Frost action Depth to saturated zone
62B	Mardin channery silt loam, 3 to 8 percent slopes	Somewhat limited	Mardin 85% Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Lordstown 5% Frost action Depth to hard bedrock Bath 5% Depth to thin cemented pan Slope Frost action Depth to thick cemented pan Depth to saturated zone
62C	Mardin channery silt loam, 8 to 15 percent slopes	Somewhat limited	Mardin 88% Depth to thin cemented pan Depth to saturated zone Slope Frost action Depth to thick cemented pan

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62D	Mardin channery silt loam, 15 to 25 percent slopes	Very limited	Mardin 85% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Lordstown 5% Slope Depth to hard bedrock Frost action Volusia 5% Depth to saturated zone Depth to thin cemented pan Frost action Slope Bath 5% Slope Depth to thin cemented pan Frost action Depth to thick cemented pan Depth to saturated zone
62E	Mardin channery silt loam, 25 to 35 percent slopes	Very limited	Mardin 80% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Bath 8% Slope Depth to thin cemented pan Frost action Depth to thick cemented pan Depth to saturated zone Lordstown, very stony 7% Slope Depth to hard bedrock Frost action Large stones Volusia 5% Slope Depth to saturated zone Depth to thin cemented pan Frost action
63B	Langford channery silt loam, 3 to 8 percent slopes	Somewhat limited	Langford 85% Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Low strength Schuyler 5% Depth to saturated zone Frost action Low strength

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63C	Langford channery silt loam, 8 to 15 percent slopes	Somewhat limited	Langford 85% Depth to thin cemented pan Slope Depth to saturated zone Frost action Depth to thick cemented pan Chadakoin 5% Slope Frost action Schuyler 5% Depth to saturated zone Slope Frost action Low strength
63D	Langford channery silt loam, 15 to 25 percent slopes	Very limited	Langford 80% Slope Depth to thin cemented pan Depth to saturated zone Frost action Low strength Erie 5% Depth to saturated zone Depth to thin cemented pan Frost action Slope Low strength Schuyler 5% Slope Depth to saturated zone Frost action Low strength Towerville 5% Slope Frost action Depth to saturated zone Low strength Depth to hard bedrock Chadakoin 5% Slope Frost action
64B	Langford-Erie channery silt loams, 3 to 8 percent slopes	Very limited	Erie 40% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Chippewa 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Fremont 5% Depth to saturated zone Frost action Low strength

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66A	Lyons soils, 0 to 3 percent slopes	Very limited	Lyons 75% Depth to saturated zone Frost action Soluble bedrock Lyons, frequently ponded 15% Ponding Depth to saturated zone Frost action Soluble bedrock Appleton 3% Depth to saturated zone Frost action Canandaigua 3% Depth to saturated zone Frost action Low strength Kendaia 2% Depth to saturated zone Frost action Soluble bedrock Palms, undrained 1% Ponding Depth to saturated zone Frost action Low strength Subsidence Ilion 1% Depth to saturated zone Frost action Shrink-swell
68A	Volusia channery silt loam, 0 to 3 percent slopes	Very limited	Volusia 90% Depth to saturated zone Depth to thin cemented pan Frost action Chippewa 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength
68B	Volusia channery silt loam, 3 to 8 percent slopes	Very limited	Volusia 90% Depth to saturated zone Depth to thin cemented pan Frost action Chippewa 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength

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68C	Volusia channery silt loam, 8 to 15 percent slopes	Very limited	Volusia 90% Depth to saturated zone Depth to thin cemented pan Frost action Slope Mardin 6% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Chippewa 4% Depth to saturated zone Depth to thin cemented pan Frost action Low strength
68D	Volusia channery silt loam, 15 to 25 percent slopes	Very limited	Volusia 90% Slope Depth to saturated zone Depth to thin cemented pan Frost action Mardin 7% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Chippewa 3% Depth to saturated zone Depth to thin cemented pan Frost action Low strength
69A	Erie channery silt loam, 0 to 3 percent slopes	Very limited	Erie 80% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Chippewa 10% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Fremont 5% Depth to saturated zone Frost action Low strength
69B	Erie channery silt loam, 3 to 8 percent slopes	Very limited	Erie 80% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Chippewa 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Fremont 5% Depth to saturated zone Frost action Low strength

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69C	Erie channery silt loam, 8 to 15 percent slopes	Very limited	Erie 80% Depth to saturated zone Depth to thin cemented pan Frost action Slope Low strength Langford 10% Slope Depth to thin cemented pan Depth to saturated zone Frost action Low strength Fremont 5% Depth to saturated zone Frost action Slope Low strength Chippewa 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength
71A	Darien silt loam, 0 to 3 percent slopes	Very limited	Darien 95% Frost action Depth to saturated zone Low strength Ilion 4% Depth to saturated zone Frost action Low strength Shrink-swell Angola 1% Frost action Low strength Depth to saturated zone Depth to hard bedrock
71B	Darien silt loam, 3 to 8 percent slopes	Very limited	Darien 95% Frost action Depth to saturated zone Low strength Ilion 4% Depth to saturated zone Frost action Low strength Shrink-swell Angola 1% Frost action Low strength Depth to saturated zone Depth to hard bedrock

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71C	Darien silt loam, 8 to 15 percent slopes	Very limited	Darien 95% Frost action Depth to saturated zone Slope Low strength Ilion 4% Depth to saturated zone Frost action Low strength Shrink-swell Angola 1% Frost action Low strength Depth to saturated zone Depth to hard bedrock Slope
72A	Darien-Ilion silt loams, 0 to 3 percent slopes	Very limited	Darien 68% Frost action Depth to saturated zone Low strength Ilion 27% Depth to saturated zone Frost action Low strength Shrink-swell Angola 5% Frost action Low strength Depth to saturated zone Depth to hard bedrock
72B	Darien-Ilion silt loams, 3 to 8 percent slopes	Very limited	Darien 68% Frost action Depth to saturated zone Low strength Ilion 27% Depth to saturated zone Frost action Low strength Shrink-swell Angola 5% Frost action Low strength Depth to saturated zone Depth to hard bedrock
73B	Gretor silt loam, 3 to 8 percent slopes	Very limited	Gretor 95% Frost action Depth to saturated zone Depth to hard bedrock Low strength Gretor, poorly drained 5% Depth to saturated zone Frost action Depth to hard bedrock Low strength

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Aggregation Method: Dominant Condition
Tie-break Rule: Higher

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73C	Gretor silt loam, 8 to 15 percent slopes	Very limited	Gretor 95% Frost action Depth to saturated zone Depth to hard bedrock Slope Low strength Gretor, poorly drained 5% Depth to saturated zone Frost action Depth to hard bedrock Low strength
73D	Gretor channery silt loam, 15 to 25 percent slopes	Very limited	Gretor 90% Slope Frost action Depth to saturated zone Depth to hard bedrock Low strength Mongaup, very stony 8% Slope Depth to hard bedrock Frost action Gretor, poorly drained 2% Depth to saturated zone Frost action Depth to hard bedrock Low strength
76B	Orpark silt loam, 3 to 8 percent slopes	Very limited	Orpark 95% Frost action Depth to saturated zone Depth to hard bedrock Low strength Orpark, poorly drained 5% Depth to saturated zone Frost action Depth to hard bedrock Low strength
76C	Orpark silt loam, 8 to 15 percent slopes	Very limited	Orpark 95% Frost action Depth to saturated zone Depth to hard bedrock Slope Low strength Orpark, poorly drained 5% Depth to saturated zone Frost action Depth to hard bedrock Low strength

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
76D	Orpark channery silt loam, 15 to 25 percent slopes	Very limited	Orpark 90% Slope Frost action Depth to saturated zone Depth to hard bedrock Low strength Orpark, poorly drained 5% Depth to saturated zone Frost action Depth to hard bedrock Low strength Lordstown, very stony 5% Slope Depth to hard bedrock Frost action
77A	Chippewa silt loam, 0 to 3 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Chippewa, very poorly drained 10% Ponding Depth to saturated zone Depth to thin cemented pan Frost action Low strength Volusia 5% Depth to saturated zone Depth to thin cemented pan Frost action
77B	Chippewa silt loam, 3 to 8 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Volusia 10% Depth to saturated zone Depth to thin cemented pan Frost action Slope Chippewa, very poorly drained 5% Ponding Depth to saturated zone Depth to thin cemented pan Frost action Low strength
82B	Manlius channery silt loam, 3 to 8 percent slopes	Somewhat limited	Manlius 95% Frost action Large stones
82C	Manlius channery silt loam, 8 to 15 percent slopes	Somewhat limited	Manlius 95% Slope Frost action Large stones

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
82D	Manlius channery silt loam, 15 to 25 percent slopes	Very limited	Manlius 95% Slope Frost action Large stones Arnot, very stony 4% Depth to hard bedrock Slope Frost action Large stones Gretor 1% Slope Frost action Depth to saturated zone Depth to hard bedrock Low strength
91A	Palms muck, 0 to 3 percent slopes	Very limited	Palms, undrained 55% Ponding Depth to saturated zone Frost action Low strength Subsidence Palms, drained 40% Depth to saturated zone Frost action Low strength Subsidence Canandaigua 5% Ponding Depth to saturated zone Frost action Low strength
92A	Carlisle muck, 0 to 3 percent slopes	Very limited	Carlisle, undrained 45% Ponding Depth to saturated zone Frost action Low strength Subsidence Carlisle, drained 40% Depth to saturated zone Frost action Low strength Subsidence Palms, undrained 10% Ponding Depth to saturated zone Frost action Low strength Subsidence Canandaigua 5% Ponding Depth to saturated zone Frost action Low strength

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
93A	Edwards muck, 0 to 3 percent slopes	Very limited	Edwards, undrained 50% Ponding Depth to saturated zone Subsidence Frost action Low strength Edwards, drained 35% Depth to saturated zone Subsidence Frost action Low strength Martisco, undrained 10% Ponding Depth to saturated zone Frost action Low strength Canandaigua 5% Ponding Depth to saturated zone Frost action Low strength
94A	Martisco muck, 0 to 3 percent slopes	Very limited	Martisco, undrained 55% Ponding Depth to saturated zone Frost action Low strength Martisco, drained 35% Depth to saturated zone Frost action Low strength Canandaigua 5% Ponding Depth to saturated zone Frost action Low strength Palms, drained 5% Depth to saturated zone Frost action Low strength Subsidence

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
95A	Saprists, 0 to 3 percent slopes, inundated	Very limited	Saprists, inundated 85% Ponding Depth to saturated zone Subsidence Frost action Low strength Palms, undrained 5% Ponding Depth to saturated zone Frost action Low strength Subsidence Fluvaquents, frequently flooded 5% Depth to saturated zone Frost action Flooding Carlisle, undrained 5% Ponding Depth to saturated zone Frost action Low strength Subsidence
101A	Honeoye loam, 0 to 3 percent slopes	Somewhat limited	Honeoye 85% Frost action Soluble bedrock Lima 5% Frost action Depth to saturated zone Soluble bedrock Lansing 4% Frost action Soluble bedrock Wassaic 2% Frost action Depth to hard bedrock
101B	Honeoye loam, 3 to 8 percent slopes	Somewhat limited	Honeoye 85% Frost action Soluble bedrock Lima 5% Frost action Depth to saturated zone Soluble bedrock Lansing 4% Frost action Soluble bedrock Wassaic 2% Frost action Depth to hard bedrock

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101C	Honeoye loam, 8 to 15 percent slopes	Somewhat limited	Honeoye 85% Slope Frost action Soluble bedrock Lima 5% Slope Frost action Depth to saturated zone Soluble bedrock Lansing 4% Slope Frost action Soluble bedrock Wassaic 2% Slope Frost action Depth to hard bedrock
101D	Honeoye loam, 15 to 25 percent slopes	Very limited	Honeoye 85% Slope Frost action Soluble bedrock Lima 5% Slope Frost action Depth to saturated zone Soluble bedrock Lansing 4% Slope Frost action Soluble bedrock Kendaia 4% Depth to saturated zone Frost action Slope Soluble bedrock Wassaic 2% Slope Frost action Depth to hard bedrock
101E	Honeoye loam, 25 to 35 percent slopes	Very limited	Honeoye 85% Slope Frost action Soluble bedrock Lima 5% Slope Frost action Depth to saturated zone Soluble bedrock Kendaia 4% Depth to saturated zone Frost action Slope Soluble bedrock Lansing 4% Slope Frost action Soluble bedrock Wassaic 2% Slope Frost action Depth to hard bedrock

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104A	Honeoye loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Frost action Soluble bedrock Lima 5% Frost action Depth to saturated zone Soluble bedrock Lansing 4% Frost action Soluble bedrock Wassaic 2% Frost action Depth to hard bedrock
104B	Honeoye loam, 3 to 8 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Frost action Soluble bedrock Lima 5% Frost action Depth to saturated zone Soluble bedrock Lansing 4% Frost action Soluble bedrock Wassaic 2% Frost action Depth to hard bedrock
104C	Honeoye loam, 8 to 15 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Slope Frost action Soluble bedrock Lima 5% Slope Frost action Depth to saturated zone Soluble bedrock Lansing 4% Slope Frost action Soluble bedrock Wassaic 2% Slope Frost action Depth to hard bedrock
106B	Danley-Lansing complex, 3 to 8 percent slopes	Somewhat limited	Danley 50% Depth to saturated zone Low strength Frost action Lansing 45% Frost action Soluble bedrock Conesus 2% Frost action Depth to saturated zone Soluble bedrock

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107B	Conesus-Lansing complex, 3 to 8 percent slopes	Somewhat limited	Conesus 50% Frost action Depth to saturated zone Soluble bedrock Lansing 45% Frost action Soluble bedrock Danley 1% Depth to saturated zone Low strength Frost action
108C	Lansing loam, 8 to 15 percent slopes	Somewhat limited	Lansing 85% Frost action Slope Soluble bedrock Conesus 8% Frost action Depth to saturated zone Slope Soluble bedrock Danley 1% Depth to saturated zone Low strength Frost action Slope Wassaic 1% Frost action Depth to hard bedrock Slope
108D	Lansing loam, 15 to 25 percent slopes	Very limited	Lansing 85% Slope Frost action Soluble bedrock Conesus 9% Slope Frost action Depth to saturated zone Soluble bedrock Wassaic 3% Slope Frost action Depth to hard bedrock Kendaia 2% Depth to saturated zone Frost action Slope Soluble bedrock Appleton 1% Depth to saturated zone Frost action Slope

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
108E	Lansing loam, 25 to 35 percent slopes	Very limited	Lansing 85% Slope Frost action Soluble bedrock Cazenovia 10% Slope Depth to saturated zone Frost action Low strength Aurora 5% Slope Frost action Depth to saturated zone Low strength Depth to hard bedrock
112B	Ontario fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Frost action Soluble bedrock Honeoye 5% Frost action Soluble bedrock Hilton 5% Frost action Depth to saturated zone Soluble bedrock Cazenovia 3% Frost action Depth to saturated zone Shrink-swell
112C	Ontario fine sandy loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Frost action Soluble bedrock Honeoye 5% Slope Frost action Soluble bedrock Hilton 5% Slope Frost action Depth to saturated zone Soluble bedrock Cazenovia 3% Slope Frost action Depth to saturated zone Shrink-swell

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
112D	Ontario fine sandy loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Frost action Soluble bedrock Cazenovia 5% Slope Frost action Depth to saturated zone Shrink-swell Honeoye 5% Slope Frost action Soluble bedrock Appleton 2% Depth to saturated zone Frost action Slope Soluble bedrock
112E	Ontario fine sandy loam, 25 to 35 percent slopes	Very limited	Ontario 85% Slope Frost action Soluble bedrock Cazenovia 5% Slope Frost action Depth to saturated zone Shrink-swell Honeoye 5% Slope Frost action Soluble bedrock Appleton 2% Depth to saturated zone Frost action Slope Soluble bedrock
114B	Ontario gravelly loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Frost action Soluble bedrock Hilton 5% Frost action Depth to saturated zone Soluble bedrock Honeoye 5% Frost action Soluble bedrock Cazenovia 3% Frost action Depth to saturated zone Shrink-swell

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
114C	Ontario gravelly loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Frost action Soluble bedrock Hilton 5% Slope Frost action Depth to saturated zone Soluble bedrock Honeoye 5% Slope Frost action Soluble bedrock Cazenovia 3% Slope Frost action Depth to saturated zone Shrink-swell
114D	Ontario gravelly loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Frost action Soluble bedrock Honeoye 5% Slope Frost action Soluble bedrock Appleton 2% Depth to saturated zone Frost action Slope Soluble bedrock
116B	Ontario loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Frost action Soluble bedrock Honeoye 5% Frost action Soluble bedrock Hilton 5% Frost action Depth to saturated zone Soluble bedrock Cazenovia 3% Frost action Depth to saturated zone Shrink-swell

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
116C	Ontario loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Frost action Soluble bedrock Honeoye 5% Slope Frost action Soluble bedrock Hilton 5% Slope Frost action Depth to saturated zone Soluble bedrock Cazenovia 3% Slope Frost action Depth to saturated zone Shrink-swell
116D	Ontario loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Frost action Soluble bedrock Cazenovia 5% Slope Frost action Depth to saturated zone Shrink-swell Honeoye 5% Slope Frost action Soluble bedrock Appleton 2% Depth to saturated zone Frost action Slope Soluble bedrock
118F	Ontario, Honeoye, and Lansing soils, 35 to 55 percent slopes	Very limited	Ontario 40% Slope Frost action Soluble bedrock Honeoye 35% Slope Frost action Soluble bedrock Lansing 20% Slope Frost action Soluble bedrock Aurora 5% Slope Frost action Depth to saturated zone Low strength Depth to hard bedrock

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
120E	Palmyra and Howard soils, 25 to 45 percent slopes	Very limited	Palmyra 55% Slope Frost action Howard 40% Slope Frost action Colonie 5% Slope
122A	Palmyra cobbly loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 95% Frost action Honeoye, lower clay surface 5% Frost action Soluble bedrock
122B	Palmyra cobbly loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 95% Frost action Honeoye, lower clay surface 5% Frost action Soluble bedrock
124A	Palmyra fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 90% Frost action Howard 10% Frost action
124B	Palmyra fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 90% Frost action Howard 10% Frost action
126A	Palmyra gravelly loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 95% Frost action Arkport 5% Frost action
126B	Palmyra gravelly loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 95% Frost action Arkport 5% Frost action
126C	Palmyra gravelly loam, 8 to 15 percent slopes	Somewhat limited	Palmyra 90% Slope Frost action Arkport 10% Slope Frost action
126D	Palmyra gravelly loam, 15 to 25 percent slopes	Very limited	Palmyra 90% Slope Frost action Arkport 10% Slope Frost action
128A	Palmyra gravelly sandy loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 90% Frost action Arkport 10% Frost action
128B	Palmyra gravelly sandy loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 90% Frost action Arkport 10% Frost action

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
128C	Palmyra gravelly sandy loam, 8 to 15 percent slopes	Somewhat limited	Palmyra 90% Slope Frost action Arkport 10% Slope Frost action
130A	Farmington loam, 0 to 3 percent slopes	Very limited	Farmington 90% Depth to hard bedrock Frost action Galoo 5% Depth to hard bedrock Low strength Frost action
130B	Farmington loam, 3 to 8 percent slopes	Very limited	Farmington 90% Depth to hard bedrock Frost action Galoo 5% Depth to hard bedrock Low strength Frost action
132A	Galoo loam, 0 to 3 percent slopes, rocky	Very limited	Galoo 95% Depth to hard bedrock Low strength Frost action
132B	Galoo loam, 3 to 8 percent slopes, rocky	Very limited	Galoo 95% Depth to hard bedrock Low strength Frost action
134A	Camillus silt loam, 0 to 3 percent slopes	Somewhat limited	Camillus 95% Frost action Depth to hard bedrock Low strength
134B	Camillus silt loam, 3 to 8 percent slopes	Somewhat limited	Camillus 95% Frost action Depth to hard bedrock Low strength
151C	Willdin-Norchip complex, 3 to 15 percent slopes	Somewhat limited	Willdin 60% Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan
152B	Valois gravelly loam, 3 to 8 percent slopes	Somewhat limited	Valois 85% Frost action Cadosia 5% Frost action Large stones Mardin 5% Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan

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152C	Valois gravelly loam, 8 to 15 percent slopes	Somewhat limited	Valois 85% Slope Frost action Mardin 5% Depth to thin cemented pan Depth to saturated zone Slope Frost action Depth to thick cemented pan Cadosia 5% Slope Frost action Large stones
152D	Valois gravelly loam, 15 to 25 percent slopes	Very limited	Valois 85% Slope Frost action Cadosia 6% Slope Frost action Large stones Mardin 6% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Volusia 3% Depth to saturated zone Depth to thin cemented pan Frost action Slope
152E	Valois gravelly loam, 25 to 35 percent slopes	Very limited	Valois 85% Slope Frost action Cadosia 6% Slope Frost action Large stones Mardin 6% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Towerville, extremely stony 3% Slope Depth to hard bedrock Depth to saturated zone Frost action Large stones
153B	Valois gravelly loam, cool, 3 to 8 percent slopes	Somewhat limited	Valois, cool 85% Frost action Rockrift 5% Frost action Large stones Willdin 5% Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan

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153C	Valois gravelly loam, cool, 8 to 15 percent slopes	Somewhat limited	Valois, cool 85% Slope Frost action Rockrift 5% Slope Frost action Large stones Willdin 5% Depth to thin cemented pan Depth to saturated zone Slope Frost action Depth to thick cemented pan
153D	Valois gravelly loam, cool, 15 to 25 percent slopes	Very limited	Valois, cool 85% Slope Frost action Rockrift 6% Slope Frost action Large stones Willdin 6% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Ontusia 3% Depth to saturated zone Depth to thin cemented pan Frost action Slope
153E	Valois gravelly loam, cool, 25 to 35 percent slopes	Very limited	Valois, cool 85% Slope Frost action Rockrift 6% Slope Frost action Large stones Willdin 6% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Ischua 3% Slope Depth to hard bedrock Depth to saturated zone Frost action

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
162B	Willdin channery silt loam, 3 to 8 percent slopes	Somewhat limited	Willdin 85% Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Lewbath 5% Depth to thin cemented pan Slope Frost action Depth to thick cemented pan Depth to saturated zone Middlebrook 5% Depth to saturated zone Frost action Depth to hard bedrock
162C	Willdin channery silt loam, 8 to 15 percent slopes	Somewhat limited	Willdin 85% Depth to thin cemented pan Depth to saturated zone Slope Frost action Depth to thick cemented pan Middlebrook 3% Depth to saturated zone Slope Frost action Depth to hard bedrock
162D	Willdin channery silt loam, 15 to 25 percent slopes	Very limited	Willdin 80% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Lewbath 10% Slope Depth to thin cemented pan Frost action Depth to thick cemented pan Depth to saturated zone Mongaup 5% Slope Frost action Large stones Depth to hard bedrock Ontusia 5% Depth to saturated zone Depth to thin cemented pan Frost action Slope

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
168A	Ontusia channery silt loam, 0 to 3 percent slopes	Very limited	Ontusia 88% Depth to saturated zone Depth to thin cemented pan Frost action Norchip 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Gretor 2% Frost action Depth to saturated zone Depth to hard bedrock Low strength
168B	Ontusia channery silt loam, 3 to 8 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Depth to thin cemented pan Frost action Norchip 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength
168C	Ontusia channery silt loam, 8 to 15 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Depth to thin cemented pan Frost action Slope Norchip 5% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Willdin 5% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan
168D	Ontusia channery silt loam, 15 to 25 percent slopes	Very limited	Ontusia 90% Slope Depth to saturated zone Depth to thin cemented pan Frost action Willdin 7% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Norchip 3% Depth to saturated zone Depth to thin cemented pan Frost action Low strength

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171C	Lordstown-Manlius-Towerville complex, 8 to 15 percent slopes, very stony	Somewhat limited	Lordstown, very stony 40% Slope Depth to hard bedrock Frost action Towerville, very stony 20% Depth to hard bedrock Depth to saturated zone Slope Frost action Large stones Manlius, very stony 20% Slope Frost action Large stones Cadosia, very stony 10% Slope Frost action Large stones Mardin, very stony 5% Depth to thin cemented pan Depth to saturated zone Slope Frost action Depth to thick cemented pan
171D	Lordstown-Manlius-Towerville complex, 15 to 25 percent slopes, very stony	Very limited	Lordstown, very stony 40% Slope Depth to hard bedrock Frost action Manlius, very stony 20% Slope Frost action Large stones Towerville, very stony 20% Slope Depth to hard bedrock Depth to saturated zone Frost action Large stones Cadosia, very stony 10% Slope Frost action Large stones Arnot, very stony 5% Depth to hard bedrock Slope Frost action Large stones

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171E	Lordstown-Manlius-Towerville complex, 25 to 35 percent slopes, extremely stony	Very limited	Lordstown, extremely stony 40% Slope Depth to hard bedrock Frost action Towerville, extremely stony 20% Slope Depth to hard bedrock Depth to saturated zone Frost action Large stones Manlius, extremely stony 20% Slope Frost action Large stones Cadosia, extremely stony 10% Slope Frost action Large stones Arnot, very stony 5% Depth to hard bedrock Slope Frost action Large stones Mardin, extremely stony 5% Slope Depth to thin cemented pan Depth to saturated zone Frost action
171F	Lordstown-Manlius-Towerville complex, 35 to 80 percent slopes, extremely stony	Very limited	Lordstown, extremely stony 40% Slope Depth to hard bedrock Frost action Towerville, extremely stony 20% Slope Depth to hard bedrock Depth to saturated zone Frost action Large stones Manlius, extremely stony 20% Slope Frost action Large stones Arnot, extremely stony 10% Depth to hard bedrock Slope Frost action Large stones Cadosia, extremely stony 10% Slope Frost action Large stones

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
177A	Norchip silt loam, 0 to 3 percent slopes	Very limited	Norchip 85% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Norchip, very poorly drained 10% Ponding Depth to saturated zone Depth to thin cemented pan Frost action Low strength Ontusia 5% Depth to saturated zone Depth to thin cemented pan Frost action
177B	Norchip silt loam, 3 to 8 percent slopes	Very limited	Norchip 85% Depth to saturated zone Depth to thin cemented pan Frost action Low strength Norchip, very poorly drained 10% Ponding Depth to saturated zone Depth to thin cemented pan Frost action Low strength Ontusia 5% Depth to saturated zone Depth to thin cemented pan Frost action Slope
181B	Mongaup-Ischua complex, 3 to 8 percent slopes	Somewhat limited	Mongaup 45% Depth to hard bedrock Frost action Ischua 40% Depth to hard bedrock Depth to saturated zone Frost action Rockrift 10% Frost action Large stones Willdin 3% Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
181C	Mongaup-Ischua complex, 8 to 15 percent slopes	Somewhat limited	Mongaup 45% Depth to hard bedrock Slope Frost action Ischua 40% Depth to hard bedrock Depth to saturated zone Slope Frost action Rockrift 10% Slope Frost action Large stones Willdin 3% Depth to thin cemented pan Depth to saturated zone Slope Frost action Depth to thick cemented pan
181D	Mongaup-Ischua complex, 15 to 25 percent slopes, very stony	Very limited	Mongaup, very stony 45% Slope Depth to hard bedrock Frost action Ischua, very stony 40% Slope Depth to hard bedrock Depth to saturated zone Frost action Rockrift 10% Slope Frost action Large stones Willdin 3% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Gretor 2% Slope Frost action Depth to saturated zone Depth to hard bedrock Low strength

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
181E	Mongaup-Ischua complex, 25 to 35 percent slopes, extremely stony	Very limited	Mongaup, extremely stony 45% Slope Depth to hard bedrock Frost action Ischua, extremely stony 40% Slope Depth to hard bedrock Depth to saturated zone Frost action Rockrift 10% Slope Frost action Large stones Willdin 3% Slope Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Gretor 2% Slope Frost action Depth to saturated zone Depth to hard bedrock Low strength
182B	Mongaup channery loam, 3 to 8 percent slopes	Somewhat limited	Mongaup 75% Depth to hard bedrock Frost action Rockrift 10% Frost action Large stones Willdin 8% Depth to thin cemented pan Depth to saturated zone Frost action Depth to thick cemented pan Ischua 5% Depth to hard bedrock Depth to saturated zone Frost action
182C	Mongaup channery loam, 8 to 15 percent slopes	Somewhat limited	Mongaup 75% Depth to hard bedrock Slope Frost action Rockrift 10% Slope Frost action Large stones Willdin 8% Depth to thin cemented pan Depth to saturated zone Slope Frost action Depth to thick cemented pan Ischua 5% Depth to hard bedrock Depth to saturated zone Slope Frost action

Local Roads and Streets

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
201A	Lima loam, 0 to 3 percent slopes	Somewhat limited	Lima 85% Frost action Depth to saturated zone Soluble bedrock Honeoye 5% Frost action Soluble bedrock Cazenovia 2% Depth to saturated zone Frost action Low strength
201B	Lima loam, 3 to 8 percent slopes	Somewhat limited	Lima 85% Frost action Depth to saturated zone Soluble bedrock Honeoye 6% Frost action Soluble bedrock Cazenovia 2% Depth to saturated zone Frost action Low strength
201C	Lima loam, 8 to 15 percent slopes	Somewhat limited	Lima 85% Frost action Depth to saturated zone Slope Soluble bedrock Honeoye 7% Frost action Slope Soluble bedrock Cazenovia 2% Depth to saturated zone Frost action Slope Low strength
204A	Lima loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Lima 85% Frost action Depth to saturated zone Soluble bedrock Honeoye 5% Frost action Soluble bedrock Cazenovia 2% Depth to saturated zone Frost action Low strength
204B	Lima loam, 3 to 8 percent slopes, lower clay surface	Somewhat limited	Lima 85% Frost action Depth to saturated zone Soluble bedrock Honeoye 6% Frost action Soluble bedrock Cazenovia 2% Depth to saturated zone Frost action Low strength

Local Roads and Streets

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
210A	Phelps gravelly silt loam, 0 to 3 percent slopes	Very limited	Phelps 85% Frost action Depth to saturated zone Low strength Homer 5% Frost action Depth to saturated zone
210B	Phelps gravelly silt loam, 3 to 8 percent slopes	Very limited	Phelps 85% Frost action Depth to saturated zone Low strength Homer 5% Frost action Depth to saturated zone
212A	Nuhi silt loam, 0 to 3 percent slopes	Somewhat limited	Nuhi 85% Depth to saturated zone Frost action Low strength Depth to hard bedrock
240B	Aurora-Angola silt loams, 3 to 8 percent slopes	Very limited	Aurora 60% Frost action Depth to saturated zone Low strength Depth to hard bedrock Angola 30% Frost action Low strength Depth to saturated zone Depth to hard bedrock Darien 5% Frost action Depth to saturated zone Low strength
240C	Aurora-Angola silt loams, 8 to 15 percent slopes	Very limited	Aurora 60% Frost action Slope Depth to saturated zone Low strength Depth to hard bedrock Angola 30% Frost action Low strength Depth to saturated zone Depth to hard bedrock Slope Darien 5% Frost action Depth to saturated zone Low strength Slope

Local Roads and Streets

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
240D	Aurora-Angola silt loams, 15 to 25 percent slopes	Very limited	Aurora 60% Slope Frost action Depth to saturated zone Low strength Depth to hard bedrock Angola 30% Slope Frost action Low strength Depth to saturated zone Depth to hard bedrock Darien 5% Slope Frost action Depth to saturated zone Low strength Danley 5% Slope Depth to saturated zone Low strength Frost action
241B	Aurora silt loam, 3 to 8 percent slopes	Very limited	Aurora 85% Frost action Depth to saturated zone Low strength Depth to hard bedrock Angola 10% Frost action Low strength Depth to saturated zone Depth to hard bedrock
241C	Aurora silt loam, 8 to 15 percent slopes	Very limited	Aurora 85% Frost action Slope Depth to saturated zone Low strength Depth to hard bedrock Angola 8% Frost action Low strength Depth to saturated zone Depth to hard bedrock Slope
241D	Aurora silt loam, 15 to 25 percent slopes	Very limited	Aurora 85% Slope Frost action Depth to saturated zone Low strength Depth to hard bedrock Danley 10% Slope Depth to saturated zone Low strength Frost action Angola 5% Slope Frost action Low strength Depth to saturated zone Depth to hard bedrock

Local Roads and Streets

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
255B	Cazenovia silt loam, 3 to 8 percent slopes	Somewhat limited	Cazenovia 85% Low strength Frost action Depth to saturated zone Shrink-swell
255C	Cazenovia silt loam, 8 to 15 percent slopes	Somewhat limited	Cazenovia 85% Slope Low strength Frost action Depth to saturated zone Shrink-swell
255D	Cazenovia silt loam, 15 to 25 percent slopes	Very limited	Cazenovia 85% Slope Low strength Frost action Depth to saturated zone Shrink-swell Cayuga 10% Slope Low strength Frost action Depth to saturated zone Ovid 5% Frost action Depth to saturated zone Low strength Slope Shrink-swell
260B	Cayuga silt loam, 3 to 8 percent slopes	Very limited	Cayuga 85% Low strength Frost action Depth to saturated zone Schoharie 10% Low strength Frost action Shrink-swell Depth to saturated zone Odessa 5% Frost action Low strength Depth to saturated zone Shrink-swell
260C	Cayuga silt loam, 8 to 15 percent slopes	Very limited	Cayuga 85% Low strength Frost action Depth to saturated zone Slope Schoharie 10% Low strength Frost action Shrink-swell Depth to saturated zone Slope Odessa 5% Frost action Low strength Depth to saturated zone Shrink-swell

Local Roads and Streets

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
260D	Cayuga silt loam, 15 to 25 percent slopes	Very limited	Cayuga 85% Slope Low strength Frost action Depth to saturated zone Lansing 10% Slope Frost action Soluble bedrock Schoharie 5% Slope Low strength Frost action Shrink-swell Depth to saturated zone
304A	Kendaia loam, 0 to 3 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Frost action Soluble bedrock Lyons 5% Depth to saturated zone Frost action Soluble bedrock Ovid 2% Frost action Depth to saturated zone Low strength Shrink-swell Churchville 2% Depth to saturated zone Frost action Low strength Shrink-swell
304B	Kendaia loam, 3 to 8 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Frost action Soluble bedrock Lyons 4% Depth to saturated zone Frost action Soluble bedrock Churchville 2% Depth to saturated zone Frost action Low strength Shrink-swell Ovid 2% Frost action Depth to saturated zone Low strength Shrink-swell

Local Roads and Streets

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
342A	Angola silt loam, 0 to 3 percent slopes	Very limited	Angola 90% Frost action Low strength Depth to saturated zone Depth to hard bedrock Darien 5% Frost action Depth to saturated zone Low strength Ilion 5% Depth to saturated zone Frost action Low strength Shrink-swell
356A	Ovid silt loam, 0 to 3 percent slopes	Very limited	Ovid 85% Frost action Depth to saturated zone Low strength Shrink-swell Odessa 10% Frost action Low strength Depth to saturated zone Shrink-swell Lakemont 5% Depth to saturated zone Low strength Frost action Shrink-swell
356B	Ovid silt loam, 3 to 8 percent slopes	Very limited	Ovid 85% Frost action Depth to saturated zone Low strength Shrink-swell Odessa 10% Frost action Low strength Depth to saturated zone Shrink-swell Lakemont 5% Depth to saturated zone Low strength Frost action Shrink-swell
357B	Ovid silty clay loam, 3 to 8 percent slopes	Very limited	Ovid 85% Frost action Depth to saturated zone Low strength Shrink-swell Odessa 10% Frost action Low strength Depth to saturated zone Shrink-swell Lakemont 5% Depth to saturated zone Low strength Frost action Shrink-swell

Local Roads and Streets

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
357C	Ovid silty clay loam, 8 to 15 percent slopes	Very limited	Ovid 85% Frost action Depth to saturated zone Low strength Shrink-swell Slope Odessa 10% Frost action Low strength Depth to saturated zone Shrink-swell Lakemont 5% Depth to saturated zone Low strength Frost action Shrink-swell
400A	Udorthents, loamy, 0 to 3 percent slopes	Somewhat limited	Udorthents, loamy 80% Frost action Howard 5% Frost action Ontario 5% Frost action Soluble bedrock Palmyra 5% Frost action Lima 5% Frost action Depth to saturated zone Soluble bedrock
401D	Udorthents, refuse substratum. 0 to 25 percent slopes	Very limited	Udorthents, refuse substratum 90% Slope Frost action Udorthents, Loamy 10% Slope Frost action
PG	Pits, gravel and sand	Not rated	Pits, gravel and sand 75%
PQ	Pits, quarry	Not rated	Pits, quarry 80%
W	Water	Not rated	Water 100%

Local Roads and Streets

Rating Options

Attribute Name: Local Roads and Streets

ENG - Engineering

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a water table, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

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

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

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value to represent the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. The components in the map unit name represent the major soils within a map unit delineation. Minor components make up the balance of the map unit. Great differences in soil properties can occur between map unit components and within short distances. Minor components may be very different from the major components. Such differences could significantly affect use and management of the map unit. Minor components may or may not be documented in the database. The results of aggregation do not reflect the presence or absence of limitations of the components which are not listed in the database. An on-site investigation is required to identify the location of individual map unit components.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be generated. Aggregation must be done because, on any soil map, map units are delineated but components are not.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.