

Shallow Excavations

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
1A	Fluvaquents-Udifuvents complex, 0 to 3 percent slopes, frequently flooded	Very limited	Fluvaquents, frequently flooded 45% Depth to saturated zone Flooding Unstable excavation walls Udifuvents, frequently flooded 40% Depth to saturated zone Unstable excavation walls Flooding Dusty Wayland 10% Depth to saturated zone Flooding Unstable excavation walls Dusty Naples Creek 5% Depth to saturated zone Flooding Dusty Unstable excavation walls
2A	Geneseo silty clay loam, 0 to 3 percent slopes	Somewhat limited	Geneseo 90% Depth to saturated zone Flooding Dusty Unstable excavation walls
3A	Hemlock silty clay loam, 0 to 3 percent slopes	Very limited	Hemlock 90% Depth to saturated zone Flooding Dusty Unstable excavation walls Naples Creek 10% Depth to saturated zone Flooding Dusty Unstable excavation walls
4A	Naples Creek silty clay loam, 0 to 3 percent slopes	Very limited	Naples Creek 90% Depth to saturated zone Flooding Dusty Unstable excavation walls Wayland 5% Depth to saturated zone Flooding Unstable excavation walls Dusty Hemlock 5% Depth to saturated zone Flooding Dusty Unstable excavation walls

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5A	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Very limited	Wayland 60% Depth to saturated zone Flooding Unstable excavation walls Dusty Wayland, very poorly drained 30% Ponding Depth to saturated zone Flooding Unstable excavation walls Dusty Wakeville 10% Depth to saturated zone Flooding Unstable excavation walls Dusty
12D	Rockrift channery silt loam, 15 to 25 percent slopes	Very limited	Rockrift 85% Slope Large stones Unstable excavation walls Dusty Mongaup, very stony 10% Slope Depth to hard bedrock Unstable excavation walls Dusty Willdin 5% Slope Depth to saturated zone Dense layer Unstable excavation walls Dusty
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 Dusty Unstable excavation walls Large stones Lordstown, very stony 10% Depth to hard bedrock Slope Unstable excavation walls Dusty Mardin 5% Slope Depth to saturated zone Dense layer Dusty Unstable excavation walls
15A	Guyanoga channery silt loam, fan, 0 to 3 percent slopes	Somewhat limited	Guyanoga, fan 90% Depth to saturated zone Large stones Dusty Unstable excavation walls Chenango, fan 5% Depth to saturated zone Unstable excavation walls Dusty

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15B	Guyanoga channery silt loam, fan, 3 to 8 percent slopes	Somewhat limited	Guyanoga, fan 90% Depth to saturated zone Large stones Dusty Unstable excavation walls Chenango, fan 5% Depth to saturated zone Unstable excavation walls Dusty
16A	Almond channery silt loam, 0 to 3 percent slopes	Very limited	Almond 80% Depth to saturated zone Unstable excavation walls Dusty Norchip 8% Depth to saturated zone Unstable excavation walls Dusty Ontusia 7% Depth to saturated zone Dense layer Unstable excavation walls Dusty Gretor 5% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty
16B	Almond channery silt loam, 3 to 8 percent slopes	Very limited	Almond 80% Depth to saturated zone Unstable excavation walls Dusty Gretor 5% Depth to saturated zone Depth to hard bedrock Slope Unstable excavation walls Dusty Salamanca 5% Depth to saturated zone Slope Unstable excavation walls Dusty Ontusia 5% Depth to saturated zone Dense layer Unstable excavation walls Dusty Norchip 5% Depth to saturated zone Unstable excavation walls Dusty

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16C	Almond channery silt loam, 8 to 15 percent slopes	Very limited	Almond 80% Depth to saturated zone Slope Unstable excavation walls Dusty Salamanca 5% Slope Depth to saturated zone Unstable excavation walls Dusty Norchip 5% Depth to saturated zone Unstable excavation walls Dusty Ontusia 5% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty Greter 5% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty
18A	Homer fine sandy loam, 0 to 3 percent slopes	Very limited	Homer 90% Depth to saturated zone Unstable excavation walls Dusty Phelps 5% Depth to saturated zone Dusty Unstable excavation walls Fine-loamy, mixed, active, mesic Typic Argiaquolls 5% Depth to saturated zone Dusty Unstable excavation walls
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 Dusty Unstable excavation walls Homer 8% Depth to saturated zone Unstable excavation walls Dusty Atherton 7% Depth to saturated zone Dusty Unstable excavation walls Palms, undrained 5% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls

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20A	Atherton and Fine-loamy, mixed, active, mesic, Typic Argiaquolls, 0 to 3 percent slopes	Very limited	Atherton 41% Depth to saturated zone Dusty Unstable excavation walls Fine-loamy, mixed, active, mesic Typic Argiaquolls 39% Ponding Depth to saturated zone Dusty Unstable excavation walls Homer 8% Depth to saturated zone Unstable excavation walls Dusty Canandaigua 7% Depth to saturated zone Dusty Unstable excavation walls Castile 5% Depth to saturated zone Dusty Unstable excavation walls
24A	Howard gravelly loam, 0 to 3 percent slopes	Somewhat limited	Howard 80% Dusty Unstable excavation walls Palmyra 10% Dusty Unstable excavation walls Arkport 5% Unstable excavation walls
24B	Howard gravelly loam, 3 to 8 percent slopes	Somewhat limited	Howard 80% Dusty Unstable excavation walls Palmyra 10% Dusty Unstable excavation walls Arkport 5% Unstable excavation walls
24C	Howard gravelly loam, 8 to 15 percent slopes	Somewhat limited	Howard 80% Slope Dusty Unstable excavation walls Palmyra 10% Slope Dusty Unstable excavation walls Arkport 5% Slope Unstable excavation walls

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24D	Howard soils, 15 to 25 percent slopes	Very limited	Howard 65% Slope Dusty Unstable excavation walls Palmyra 20% Slope Dusty Unstable excavation walls Arkport 13% Slope Unstable excavation walls Phelps 2% Depth to saturated zone Dusty Unstable excavation walls
25A	Chenango gravelly loam, 0 to 3 percent slopes	Somewhat limited	Chenango 90% Unstable excavation walls Dusty Valois 2% Unstable excavation walls Dusty
25B	Chenango gravelly loam, 3 to 8 percent slopes	Somewhat limited	Chenango 90% Unstable excavation walls Dusty Valois 5% Unstable excavation walls Dusty
25C	Chenango gravelly loam, 8 to 15 percent slopes	Somewhat limited	Chenango 90% Slope Unstable excavation walls Dusty Valois 5% Slope Unstable excavation walls Dusty
25D	Chenango gravelly loam, 15 to 25 percent slopes	Very limited	Chenango 90% Slope Unstable excavation walls Dusty Castile 8% Depth to saturated zone Slope Dusty Unstable excavation walls Valois 2% Slope Unstable excavation walls Dusty
25E	Chenango gravelly loam, 25 to 35 percent slopes	Very limited	Chenango 90% Slope Unstable excavation walls Dusty Valois 10% Slope Unstable excavation walls Dusty

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26B	Chenango channery loam, fan, 3 to 8 percent slopes	Somewhat limited	Chenango, fan 85% Depth to saturated zone Unstable excavation walls Dusty Guyanoga, fan 5% Depth to saturated zone Large stones Dusty Unstable excavation walls
27B	Castile gravelly silt loam, 3 to 8 percent slopes	Very limited	Castile 85% Depth to saturated zone Dusty Unstable excavation walls Phelps 5% Depth to saturated zone Dusty Unstable excavation walls Homer 5% Depth to saturated zone Unstable excavation walls Dusty
31A	Collamer silt loam, 0 to 3 percent slopes	Very limited	Collamer 85% Depth to saturated zone Dusty Unstable excavation walls Niagara 10% Depth to saturated zone Dusty Unstable excavation walls Schoharie 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls
31B	Collamer silt loam, 3 to 8 percent slopes	Very limited	Collamer 85% Depth to saturated zone Dusty Unstable excavation walls Niagara 10% Depth to saturated zone Dusty Unstable excavation walls Schoharie 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls

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31C	Collamer silt loam, 8 to 15 percent slopes	Very limited	Collamer 85% Depth to saturated zone Slope Dusty Unstable excavation walls Niagara 10% Depth to saturated zone Dusty Unstable excavation walls Schoharie 5% Depth to saturated zone Too clayey Slope Dusty Unstable excavation walls
31D	Collamer silt loam, 15 to 25 percent slopes	Very limited	Collamer 90% Slope Depth to saturated zone Dusty Unstable excavation walls Schoharie 5% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Niagara 5% Depth to saturated zone Slope Dusty Unstable excavation walls
32A	Dunkirk fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Dunkirk 90% Dusty Unstable excavation walls Arkport 4% Unstable excavation walls
32B	Dunkirk fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Dunkirk 90% Dusty Unstable excavation walls Arkport 4% Unstable excavation walls
33A	Dunkirk silt loam, 0 to 3 percent slopes	Somewhat limited	Dunkirk 90% Dusty Unstable excavation walls Arkport 4% Unstable excavation walls
33B	Dunkirk silt loam, 3 to 8 percent slopes	Somewhat limited	Dunkirk 90% Dusty Unstable excavation walls Arkport 4% Unstable excavation walls
33C	Dunkirk silt loam, 8 to 15 percent slopes	Somewhat limited	Dunkirk 90% Slope Dusty Unstable excavation walls Arkport 4% Slope Unstable excavation walls

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33D	Dunkirk silt loam, 15 to 25 percent slopes	Very limited	Dunkirk 90% Slope Dusty Unstable excavation walls Schoharie 5% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Arkport 5% Slope Unstable excavation walls
33E	Dunkirk silt loam, 25 to 35 percent slopes	Very limited	Dunkirk 90% Slope Dusty Unstable excavation walls Schoharie 5% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Arkport 5% Slope Unstable excavation walls
34A	Lakemont silty clay loam, 0 to 3 percent slopes	Very limited	Lakemont 85% Depth to saturated zone Too clayey Dusty Unstable excavation walls Odessa 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Fonda 4% Ponding Depth to saturated zone Too clayey Dusty Unstable excavation walls Canandaigua 4% Depth to saturated zone Dusty Unstable excavation walls Barre 2% Depth to saturated zone Too clayey Dusty Unstable excavation walls

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35A	Odessa silt loam, 0 to 3 percent slopes	Very limited	Odessa 85% Depth to saturated zone Too clayey Dusty Unstable excavation walls Lakemont 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Schoharie 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Churchville 3% Depth to saturated zone Unstable excavation walls Too clayey Dense layer Dusty Rhinebeck 2% Depth to saturated zone Too clayey Dusty Unstable excavation walls
35B	Odessa silty clay loam, 3 to 8 percent slopes	Very limited	Odessa 85% Depth to saturated zone Too clayey Dusty Unstable excavation walls Schoharie 6% Depth to saturated zone Too clayey Dusty Unstable excavation walls Lakemont 4% Depth to saturated zone Too clayey Dusty Unstable excavation walls Churchville 3% Depth to saturated zone Unstable excavation walls Too clayey Dense layer Dusty Rhinebeck 2% Depth to saturated zone Too clayey Dusty Unstable excavation walls

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36A	Schoharie silty clay loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Depth to saturated zone Too clayey Dusty Unstable excavation walls Cazenovia 5% Depth to saturated zone Dusty Unstable excavation walls Odessa 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Cayuga 3% Depth to saturated zone Too clayey Dusty Unstable excavation walls Collamer 2% Depth to saturated zone Dusty Unstable excavation walls
36B	Schoharie silty clay loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Depth to saturated zone Too clayey Dusty Unstable excavation walls Cazenovia 5% Depth to saturated zone Dusty Unstable excavation walls Odessa 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Cayuga 3% Depth to saturated zone Too clayey Dusty Unstable excavation walls Collamer 2% Depth to saturated zone Dusty Unstable excavation walls

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36C	Schoharie silty clay loam, 8 to 15 percent slopes	Very limited	Schoharie 85% Depth to saturated zone Too clayey Slope Dusty Unstable excavation walls Cazenovia 5% Depth to saturated zone Slope Dusty Unstable excavation walls Odessa 5% Depth to saturated zone Slope Too clayey Dusty Unstable excavation walls Cayuga 3% Depth to saturated zone Too clayey Slope Dusty Unstable excavation walls Collamer 2% Depth to saturated zone Slope Dusty Unstable excavation walls
36D	Schoharie silty clay loam, 15 to 25 percent slopes	Very limited	Schoharie 85% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Cazenovia 5% Slope Depth to saturated zone Dusty Unstable excavation walls Odessa 5% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Cayuga 3% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Collamer 2% Slope Depth to saturated zone Dusty Unstable excavation walls

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36E	Schoharie silty clay loam, 25 to 45 percent slopes	Very limited	Schoharie 85% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Odessa 5% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Cazenovia 5% Slope Depth to saturated zone Dusty Unstable excavation walls Cayuga 3% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls Collamer 2% Slope Depth to saturated zone Dusty Unstable excavation walls
37A	Schoharie silt loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Depth to saturated zone Too clayey Dusty Unstable excavation walls Cazenovia 5% Depth to saturated zone Dusty Unstable excavation walls Odessa 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Cayuga 3% Depth to saturated zone Too clayey Dusty Unstable excavation walls Collamer 2% Depth to saturated zone Dusty Unstable excavation walls

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37B	Schoharie silt loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Depth to saturated zone Too clayey Dusty Unstable excavation walls Cazenovia 5% Depth to saturated zone Dusty Unstable excavation walls Odessa 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Cayuga 3% Depth to saturated zone Too clayey Dusty Unstable excavation walls Collamer 2% Depth to saturated zone Dusty Unstable excavation walls
38A	Niagara silt loam, 0 to 3 percent slopes	Very limited	Niagara 85% Depth to saturated zone Dusty Unstable excavation walls Canandaigua 5% Depth to saturated zone Dusty Unstable excavation walls Rhinebeck 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Collamer 5% Depth to saturated zone Dusty Unstable excavation walls
38B	Niagara silt loam, 3 to 8 percent slopes	Very limited	Niagara 85% Depth to saturated zone Dusty Unstable excavation walls Canandaigua 5% Depth to saturated zone Dusty Unstable excavation walls Rhinebeck 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Collamer 5% Depth to saturated zone Dusty Unstable excavation walls

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39A	Rhinebeck silty clay loam, 0 to 3 percent slopes	Very limited	Rhinebeck 90% Depth to saturated zone Too clayey Dusty Unstable excavation walls Lakemont 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls Niagara 5% Depth to saturated zone Dusty Unstable excavation walls
41A	Aeric Epiaquepts, 0 to 3 percent slopes	Very limited	Aeric Epiaquepts 50% Depth to saturated zone Unstable excavation walls Dusty Aeric Epiaquepts 45% Depth to saturated zone Unstable excavation walls Dusty Elnora 5% Depth to saturated zone Unstable excavation walls
43A	Canandaigua silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Depth to saturated zone Dusty Unstable excavation walls Canandaigua 4% Ponding Depth to saturated zone Dusty Unstable excavation walls Lakemont 3% Depth to saturated zone Too clayey Dusty Unstable excavation walls Niagara 3% Depth to saturated zone Dusty Unstable excavation walls

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44A	Canandaigua mucky silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Ponding Depth to saturated zone Dusty Unstable excavation walls Canandaigua 5% Depth to saturated zone Dusty Unstable excavation walls Lakemont 3% Depth to saturated zone Too clayey Dusty Unstable excavation walls Palms, undrained 2% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls
45A	Fonda mucky silt loam, 0 to 3 percent slopes	Very limited	Fonda 95% Ponding Depth to saturated zone Too clayey Dusty Unstable excavation walls Canandaigua 3% Ponding Depth to saturated zone Dusty Unstable excavation walls Palms, undrained 2% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls
46A	Galen fine sandy loam, 0 to 3 percent slopes	Very limited	Galen 90% Depth to saturated zone Unstable excavation walls Dusty Aeric Epiaquepts 5% Depth to saturated zone Unstable excavation walls Dusty Kendaia 5% Depth to saturated zone Dusty Unstable excavation walls
46B	Galen fine sandy loam, 3 to 8 percent slopes	Very limited	Galen 90% Depth to saturated zone Unstable excavation walls Dusty Kendaia 5% Depth to saturated zone Dusty Unstable excavation walls Aeric Epiaquepts 5% Depth to saturated zone Unstable excavation walls Dusty

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48A	Arkport fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Arkport 95% Unstable excavation walls Dunkirk 3% Dusty Unstable excavation walls
48B	Arkport fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Unstable excavation walls Dunkirk 3% Dusty Unstable excavation walls
48C	Arkport fine sandy loam, 8 to 15 percent slopes	Somewhat limited	Arkport 95% Slope Unstable excavation walls Dunkirk 3% Slope Dusty Unstable excavation walls
48D	Arkport fine sandy loam, 15 to 25 percent slopes	Very limited	Arkport 90% Slope Unstable excavation walls Dunkirk 8% Slope Dusty Unstable excavation walls Palmyra 2% Slope Dusty Unstable excavation walls
49B	Arkport loamy fine sand, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Unstable excavation walls Dunkirk 3% Dusty Unstable excavation walls
49D	Arkport loamy fine sand, 15 to 25 percent slopes	Very limited	Arkport 95% Slope Unstable excavation walls Dunkirk 3% Slope Dusty Unstable excavation walls Palmyra 2% Slope Dusty Unstable excavation walls
49E	Arkport loamy fine sand, 25 to 35 percent slopes	Very limited	Arkport 90% Slope Unstable excavation walls Dunkirk 8% Slope Dusty Unstable excavation walls Palmyra 2% Slope Dusty Unstable excavation walls

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49F	Arkport loamy fine sand, 35 to 55 percent slopes	Very limited	Arkport 90% Slope Unstable excavation walls Dunkirk 8% Slope Dusty Unstable excavation walls Palmyra 2% Slope Dusty Unstable excavation walls
50B	Dunkirk-Arkport complex, 3 to 8 percent slopes	Somewhat limited	Dunkirk 50% Dusty Unstable excavation walls Arkport 45% Unstable excavation walls
50C	Dunkirk-Arkport complex, 8 to 15 percent slopes	Somewhat limited	Dunkirk 60% Slope Dusty Unstable excavation walls Arkport 35% Slope Unstable excavation walls
50D	Dunkirk-Arkport complex, 15 to 25 percent slopes	Very limited	Dunkirk 60% Slope Dusty Unstable excavation walls Arkport 35% Slope Unstable excavation walls Collamer 5% Slope Depth to saturated zone Dusty Unstable excavation walls
53A	Lamson fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Depth to saturated zone Unstable excavation walls Lamson 5% Ponding Depth to saturated zone Unstable excavation walls Canandaigua 3% Depth to saturated zone Dusty Unstable excavation walls Galen 2% Depth to saturated zone Unstable excavation walls Dusty
54A	Lamson mucky fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Ponding Depth to saturated zone Unstable excavation walls Canandaigua 5% Depth to saturated zone Dusty Unstable excavation walls Lamson 5% Depth to saturated zone Unstable excavation walls

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56A	Elnora loamy fine sand, 0 to 3 percent slopes	Very limited	Elnora 90% Depth to saturated zone Unstable excavation walls Aeric Epiaquepts 10% Depth to saturated zone Unstable excavation walls Dusty
58B	Colonie loamy fine sand, 3 to 8 percent slopes	Somewhat limited	Colonie 95% Unstable excavation walls
58C	Colonie loamy fine sand, 8 to 15 percent slopes	Somewhat limited	Colonie 95% Unstable excavation walls Slope
62B	Mardin channery silt loam, 3 to 8 percent slopes	Very limited	Mardin 85% Depth to saturated zone Unstable excavation walls Dusty Lordstown 5% Depth to hard bedrock Unstable excavation walls Dusty Bath 5% Depth to saturated zone Slope Unstable excavation walls Dusty Volusia 5% Depth to saturated zone Dense layer Unstable excavation walls Dusty
62C	Mardin channery silt loam, 8 to 15 percent slopes	Very limited	Mardin 88% Depth to saturated zone Slope Unstable excavation walls Dusty Bath 5% Slope Depth to saturated zone Unstable excavation walls Dusty Volusia 5% Depth to saturated zone Dense layer Unstable excavation walls Dusty Lordstown 2% Slope Depth to hard bedrock Unstable excavation walls Dusty

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62D	Mardin channery silt loam, 15 to 25 percent slopes	Very limited	Mardin 85% Slope Depth to saturated zone Unstable excavation walls Dusty Lordstown 5% Depth to hard bedrock Slope Unstable excavation walls Dusty Volusia 5% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty Bath 5% Slope Depth to saturated zone Unstable excavation walls Dusty
62E	Mardin channery silt loam, 25 to 35 percent slopes	Very limited	Mardin 80% Slope Depth to saturated zone Unstable excavation walls Dusty Bath 8% Slope Depth to saturated zone Unstable excavation walls Dusty Lordstown, very stony 7% Depth to hard bedrock Slope Large stones Unstable excavation walls Dusty Volusia 5% Slope Depth to saturated zone Dense layer Unstable excavation walls Dusty
63B	Langford channery silt loam, 3 to 8 percent slopes	Very limited	Langford 85% Depth to saturated zone Unstable excavation walls Dusty Erie 10% Depth to saturated zone Unstable excavation walls Dusty Schuyler 5% Depth to saturated zone Unstable excavation walls Dusty

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63C	Langford channery silt loam, 8 to 15 percent slopes	Very limited	Langford 85% Depth to saturated zone Slope Unstable excavation walls Dusty Erie 5% Depth to saturated zone Unstable excavation walls Dusty Schuyler 5% Depth to saturated zone Slope Unstable excavation walls Dusty
63D	Langford channery silt loam, 15 to 25 percent slopes	Very limited	Langford 80% Slope Depth to saturated zone Unstable excavation walls Dusty Erie 5% Depth to saturated zone Slope Unstable excavation walls Dusty Schuyler 5% Slope Depth to saturated zone Unstable excavation walls Dusty Towerville 5% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty Chadakoin 5% Slope Unstable excavation walls Dusty
64B	Langford-Erie channery silt loams, 3 to 8 percent slopes	Very limited	Langford 50% Depth to saturated zone Unstable excavation walls Dusty Erie 40% Depth to saturated zone Unstable excavation walls Dusty Chippewa 5% Depth to saturated zone Unstable excavation walls Dusty Fremont 5% Depth to saturated zone Unstable excavation walls Dusty

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66A	Lyons soils, 0 to 3 percent slopes	Very limited	Lyons 75% Depth to saturated zone Dusty Unstable excavation walls Lyons, frequently ponded 15% Ponding Depth to saturated zone Dusty Unstable excavation walls Appleton 3% Depth to saturated zone Dense layer Dusty Unstable excavation walls Canandaigua 3% Depth to saturated zone Dusty Unstable excavation walls Kendaia 2% Depth to saturated zone Dusty Unstable excavation walls Palms, undrained 1% Ponding Depth to saturated zone Dusty Unstable excavation walls Iliion 1% Depth to saturated zone Dense layer Dusty Unstable excavation walls
68A	Volusia channery silt loam, 0 to 3 percent slopes	Very limited	Volusia 90% Depth to saturated zone Dense layer Unstable excavation walls Dusty Chippewa 5% Depth to saturated zone Unstable excavation walls Dusty Mardin 5% Depth to saturated zone Unstable excavation walls Dusty
68B	Volusia channery silt loam, 3 to 8 percent slopes	Very limited	Volusia 90% Depth to saturated zone Dense layer Unstable excavation walls Dusty Chippewa 5% Depth to saturated zone Unstable excavation walls Dusty Mardin 5% Depth to saturated zone Slope Unstable excavation walls Dusty

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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
68C	Volusia channery silt loam, 8 to 15 percent slopes	Very limited	Volusia 90% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty Mardin 6% Slope Depth to saturated zone Unstable excavation walls Dusty Chippewa 4% Depth to saturated zone Unstable excavation walls Dusty
68D	Volusia channery silt loam, 15 to 25 percent slopes	Very limited	Volusia 90% Slope Depth to saturated zone Dense layer Unstable excavation walls Dusty Mardin 7% Slope Depth to saturated zone Unstable excavation walls Dusty Chippewa 3% Depth to saturated zone Unstable excavation walls Dusty
69A	Erie channery silt loam, 0 to 3 percent slopes	Very limited	Erie 80% Depth to saturated zone Unstable excavation walls Dusty Chippewa 10% Depth to saturated zone Unstable excavation walls Dusty Fremont 5% Depth to saturated zone Unstable excavation walls Dusty Langford 5% Depth to saturated zone Unstable excavation walls Dusty

Shallow Excavations

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
69B	Erie channery silt loam, 3 to 8 percent slopes	Very limited	Erie 80% Depth to saturated zone Unstable excavation walls Dusty Langford 10% Depth to saturated zone Slope Unstable excavation walls Dusty Chippewa 5% Depth to saturated zone Unstable excavation walls Dusty Fremont 5% Depth to saturated zone Unstable excavation walls Dusty
69C	Erie channery silt loam, 8 to 15 percent slopes	Very limited	Erie 80% Depth to saturated zone Slope Unstable excavation walls Dusty Langford 10% Slope Depth to saturated zone Unstable excavation walls Dusty Fremont 5% Depth to saturated zone Slope Unstable excavation walls Dusty Chippewa 5% Depth to saturated zone Unstable excavation walls Dusty
71A	Darien silt loam, 0 to 3 percent slopes	Very limited	Darien 95% Depth to saturated zone Dusty Unstable excavation walls Iliion 4% Depth to saturated zone Dusty Unstable excavation walls Angola 1% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls

Shallow Excavations

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
71B	Darien silt loam, 3 to 8 percent slopes	Very limited	Darien 95% Depth to saturated zone Dusty Unstable excavation walls Ilion 4% Depth to saturated zone Dusty Unstable excavation walls Angola 1% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
71C	Darien silt loam, 8 to 15 percent slopes	Very limited	Darien 95% Depth to saturated zone Slope Dusty Unstable excavation walls Ilion 4% Depth to saturated zone Dusty Unstable excavation walls Angola 1% Depth to saturated zone Depth to hard bedrock Slope Dusty Unstable excavation walls
72A	Darien-Ilion silt loams, 0 to 3 percent slopes	Very limited	Darien 68% Depth to saturated zone Dusty Unstable excavation walls Ilion 27% Depth to saturated zone Dusty Unstable excavation walls Angola 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
72B	Darien-Ilion silt loams, 3 to 8 percent slopes	Very limited	Darien 68% Depth to saturated zone Dusty Unstable excavation walls Ilion 27% Depth to saturated zone Dusty Unstable excavation walls Angola 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls

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Aggregation Method: Dominant Condition
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
73B	Greter silt loam, 3 to 8 percent slopes	Very limited	Greter 95% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty Greter, poorly drained 5% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty
73C	Greter silt loam, 8 to 15 percent slopes	Very limited	Greter 95% Depth to saturated zone Depth to hard bedrock Slope Unstable excavation walls Dusty Greter, poorly drained 5% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty
73D	Greter channery silt loam, 15 to 25 percent slopes	Very limited	Greter 90% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty Mongaup, very stony 8% Slope Depth to hard bedrock Unstable excavation walls Dusty Greter, poorly drained 2% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty
76B	Orpark silt loam, 3 to 8 percent slopes	Very limited	Orpark 95% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Orpark, poorly drained 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
76C	Orpark silt loam, 8 to 15 percent slopes	Very limited	Orpark 95% Depth to saturated zone Depth to hard bedrock Slope Dusty Unstable excavation walls Orpark, poorly drained 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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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 Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Orpark, poorly drained 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Lordstown, very stony 5% Depth to hard bedrock Slope Unstable excavation walls Dusty
77A	Chippewa silt loam, 0 to 3 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Unstable excavation walls Dusty Chippewa, very poorly drained 10% Ponding Depth to saturated zone Organic matter content Unstable excavation walls Dusty Volusia 5% Depth to saturated zone Dense layer Unstable excavation walls Dusty
77B	Chippewa silt loam, 3 to 8 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Unstable excavation walls Dusty Volusia 10% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty Chippewa, very poorly drained 5% Ponding Depth to saturated zone Organic matter content Unstable excavation walls Dusty
82B	Manlius channery silt loam, 3 to 8 percent slopes	Somewhat limited	Manlius 95% Depth to soft bedrock Large stones Unstable excavation walls Dusty
82C	Manlius channery silt loam, 8 to 15 percent slopes	Somewhat limited	Manlius 95% Slope Depth to soft bedrock Large stones Unstable excavation walls Dusty

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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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 Depth to soft bedrock Large stones Unstable excavation walls Dusty Arnot, very stony 4% Depth to hard bedrock Slope Organic matter content Large stones Unstable excavation walls Greter 1% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty
91A	Palms muck, 0 to 3 percent slopes	Very limited	Palms, undrained 55% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls Palms, drained 40% Depth to saturated zone Organic matter content Dusty Unstable excavation walls Canandaigua 5% Ponding Depth to saturated zone Dusty Unstable excavation walls
92A	Carlisle muck, 0 to 3 percent slopes	Very limited	Carlisle, undrained 45% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls Carlisle, drained 40% Depth to saturated zone Organic matter content Dusty Unstable excavation walls Palms, undrained 10% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls Canandaigua 5% Ponding Depth to saturated zone Dusty Unstable excavation walls

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

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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 Dusty Unstable excavation walls Edwards, drained 35% Depth to saturated zone Dusty Unstable excavation walls Martisco, undrained 10% Ponding Depth to saturated zone Dusty Unstable excavation walls Canandaigua 5% Ponding Depth to saturated zone Dusty Unstable excavation walls
94A	Martisco muck, 0 to 3 percent slopes	Very limited	Martisco, undrained 55% Ponding Depth to saturated zone Dusty Unstable excavation walls Martisco, drained 35% Depth to saturated zone Dusty Unstable excavation walls Canandaigua 5% Ponding Depth to saturated zone Dusty Unstable excavation walls Palms, drained 5% Depth to saturated zone Organic matter content Dusty Unstable excavation walls
95A	Saprists, 0 to 3 percent slopes, inundated	Very limited	Saprists, inundated 85% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls Palms, undrained 5% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls Fluvaquents, frequently flooded 5% Depth to saturated zone Flooding Unstable excavation walls Carlisle, undrained 5% Ponding Depth to saturated zone Organic matter content Dusty Unstable excavation walls

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101A	Honeoye loam, 0 to 3 percent slopes	Somewhat limited	Honeoye 85% Unstable excavation walls Dusty Lansing 4% Dusty Unstable excavation walls
101B	Honeoye loam, 3 to 8 percent slopes	Somewhat limited	Honeoye 85% Unstable excavation walls Dusty Lansing 4% Dusty Unstable excavation walls
101C	Honeoye loam, 8 to 15 percent slopes	Somewhat limited	Honeoye 85% Slope Unstable excavation walls Dusty Lansing 4% Slope Dusty Unstable excavation walls
101D	Honeoye loam, 15 to 25 percent slopes	Very limited	Honeoye 85% Slope Unstable excavation walls Dusty Lima 5% Depth to saturated zone Slope Unstable excavation walls Dusty Lansing 4% Slope Dusty Unstable excavation walls Kendaia 4% Depth to saturated zone Slope Dusty Unstable excavation walls Wassaic 2% Slope Depth to hard bedrock Dusty Unstable excavation walls

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101E	Honeoye loam, 25 to 35 percent slopes	Very limited	Honeoye 85% Slope Unstable excavation walls Dusty Lima 5% Depth to saturated zone Slope Unstable excavation walls Dusty Kendaia 4% Depth to saturated zone Slope Dusty Unstable excavation walls Lansing 4% Slope Dusty Unstable excavation walls Wassaic 2% Slope Depth to hard bedrock Dusty Unstable excavation walls
104A	Honeoye loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Unstable excavation walls Dusty Lansing 4% Dusty Unstable excavation walls
104B	Honeoye loam, 3 to 8 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Unstable excavation walls Dusty Lansing 4% Dusty Unstable excavation walls
104C	Honeoye loam, 8 to 15 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Slope Unstable excavation walls Dusty Lansing 4% Slope Dusty Unstable excavation walls

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
106B	Danley-Lansing complex, 3 to 8 percent slopes	Very limited	Danley 50% Depth to saturated zone Dusty Unstable excavation walls Conesus 2% Depth to saturated zone Dusty Unstable excavation walls Kendaia 1% Depth to saturated zone Dusty Unstable excavation walls Palatine 1% Depth to hard bedrock Dense layer Dusty Unstable excavation walls Appleton 1% Depth to saturated zone Dense layer Dusty Unstable excavation walls
107B	Conesus-Lansing complex, 3 to 8 percent slopes	Very limited	Conesus 50% Depth to saturated zone Dusty Unstable excavation walls Kendaia 2% Depth to saturated zone Dusty Unstable excavation walls Appleton 1% Depth to saturated zone Dense layer Dusty Unstable excavation walls Danley 1% Depth to saturated zone Dusty Unstable excavation walls Palatine 1% Depth to hard bedrock Dense layer Dusty Unstable excavation walls
108C	Lansing loam, 8 to 15 percent slopes	Somewhat limited	Lansing 85% Slope Dusty Unstable excavation walls

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
108D	Lansing loam, 15 to 25 percent slopes	Very limited	Lansing 85% Slope Dusty Unstable excavation walls Conesus 9% Slope Depth to saturated zone Dusty Unstable excavation walls Wassaic 3% Slope Depth to hard bedrock Dusty Unstable excavation walls Kendaia 2% Depth to saturated zone Slope Dusty Unstable excavation walls Appleton 1% Depth to saturated zone Dense layer Slope Dusty Unstable excavation walls
108E	Lansing loam, 25 to 35 percent slopes	Very limited	Lansing 85% Slope Dusty Unstable excavation walls Cazenovia 10% Slope Depth to saturated zone Dusty Unstable excavation walls Aurora 5% Slope Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
112B	Ontario fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Unstable excavation walls Dusty Honeoye 5% Unstable excavation walls Dusty
112C	Ontario fine sandy loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Unstable excavation walls Dusty Honeoye 5% Slope Unstable excavation walls Dusty

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

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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 Unstable excavation walls Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Unstable excavation walls Honeoye 5% Slope Unstable excavation walls Dusty Hilton 3% Depth to saturated zone Slope Unstable excavation walls Dusty Appleton 2% Depth to saturated zone Slope Unstable excavation walls Dusty
112E	Ontario fine sandy loam, 25 to 35 percent slopes	Very limited	Ontario 85% Slope Unstable excavation walls Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Unstable excavation walls Honeoye 5% Slope Unstable excavation walls Dusty Hilton 3% Depth to saturated zone Slope Unstable excavation walls Dusty Appleton 2% Depth to saturated zone Slope Unstable excavation walls Dusty
114B	Ontario gravelly loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Unstable excavation walls Dusty Honeoye 5% Unstable excavation walls Dusty
114C	Ontario gravelly loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Unstable excavation walls Dusty Honeoye 5% Slope Unstable excavation walls Dusty

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
114D	Ontario gravelly loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Unstable excavation walls Dusty Honeoye 5% Slope Unstable excavation walls Dusty Hilton 5% Depth to saturated zone Slope Unstable excavation walls Dusty Cazenovia 3% Depth to saturated zone Slope Dusty Unstable excavation walls Appleton 2% Depth to saturated zone Slope Unstable excavation walls Dusty
116B	Ontario loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Unstable excavation walls Dusty Honeoye 5% Unstable excavation walls Dusty
116C	Ontario loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Unstable excavation walls Dusty Honeoye 5% Slope Unstable excavation walls Dusty
116D	Ontario loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Unstable excavation walls Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Unstable excavation walls Honeoye 5% Slope Unstable excavation walls Dusty Hilton 3% Depth to saturated zone Slope Unstable excavation walls Dusty Appleton 2% Depth to saturated zone Slope Unstable excavation walls Dusty

Shallow Excavations

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
118F	Ontario, Honeoye, and Lansing soils, 35 to 55 percent slopes	Very limited	Ontario 40% Slope Unstable excavation walls Dusty Honeoye 35% Slope Unstable excavation walls Dusty Lansing 20% Slope Dusty Unstable excavation walls Aurora 5% Slope Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
120E	Palmyra and Howard soils, 25 to 45 percent slopes	Very limited	Palmyra 55% Slope Dusty Unstable excavation walls Howard 40% Slope Dusty Unstable excavation walls Colonie 5% Slope Unstable excavation walls
122A	Palmyra cobbly loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 95% Dusty Unstable excavation walls Honeoye, lower clay surface 5% Unstable excavation walls Dusty
122B	Palmyra cobbly loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 95% Dusty Unstable excavation walls Honeoye, lower clay surface 5% Unstable excavation walls Dusty
124A	Palmyra fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 90% Dusty Unstable excavation walls Howard 10% Dusty Unstable excavation walls
124B	Palmyra fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 90% Dusty Unstable excavation walls Howard 10% Dusty Unstable excavation walls
126A	Palmyra gravelly loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 95% Dusty Unstable excavation walls Arkport 5% Unstable excavation walls

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
126B	Palmyra gravelly loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 95% Dusty Unstable excavation walls Arkport 5% Unstable excavation walls
126C	Palmyra gravelly loam, 8 to 15 percent slopes	Somewhat limited	Palmyra 90% Slope Dusty Unstable excavation walls Arkport 10% Slope Unstable excavation walls
126D	Palmyra gravelly loam, 15 to 25 percent slopes	Very limited	Palmyra 90% Slope Dusty Unstable excavation walls Arkport 10% Slope Unstable excavation walls
128A	Palmyra gravelly sandy loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 90% Unstable excavation walls Dusty Arkport 10% Unstable excavation walls
128B	Palmyra gravelly sandy loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 90% Unstable excavation walls Dusty Arkport 10% Unstable excavation walls
128C	Palmyra gravelly sandy loam, 8 to 15 percent slopes	Somewhat limited	Palmyra 90% Slope Unstable excavation walls Dusty Arkport 10% Slope Unstable excavation walls
130A	Farmington loam, 0 to 3 percent slopes	Very limited	Farmington 90% Depth to hard bedrock Dusty Unstable excavation walls Galoo 5% Depth to hard bedrock Dusty Unstable excavation walls Nuhi 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
130B	Farmington loam, 3 to 8 percent slopes	Very limited	Farmington 90% Depth to hard bedrock Dusty Unstable excavation walls Galoo 5% Depth to hard bedrock Dusty Unstable excavation walls Nuhi 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
132A	Galoo loam, 0 to 3 percent slopes, rocky	Very limited	Galoo 95% Depth to hard bedrock Dusty Unstable excavation walls Nuhi 4% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
132B	Galoo loam, 3 to 8 percent slopes, rocky	Very limited	Galoo 95% Depth to hard bedrock Dusty Unstable excavation walls Nuhi 4% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
134A	Camillus silt loam, 0 to 3 percent slopes	Very limited	Camillus 95% Depth to hard bedrock Dusty Unstable excavation walls Angola 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
134B	Camillus silt loam, 3 to 8 percent slopes	Very limited	Camillus 95% Depth to hard bedrock Dusty Unstable excavation walls Angola 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
151C	Willdin-Norchip complex, 3 to 15 percent slopes	Very limited	Willdin 60% Depth to saturated zone Unstable excavation walls Dusty Norchip 38% Depth to saturated zone Unstable excavation walls Dusty Palms, undrained 2% Ponding Depth to saturated zone Organic matter content Unstable excavation walls Dusty
152B	Valois gravelly loam, 3 to 8 percent slopes	Somewhat limited	Valois 85% Unstable excavation walls Dusty Cadosia 5% Dusty Unstable excavation walls Large stones
152C	Valois gravelly loam, 8 to 15 percent slopes	Somewhat limited	Valois 85% Slope Unstable excavation walls Dusty Cadosia 5% Slope Dusty Unstable excavation walls Large stones
152D	Valois gravelly loam, 15 to 25 percent slopes	Very limited	Valois 85% Slope Unstable excavation walls Dusty Cadosia 6% Slope Dusty Unstable excavation walls Large stones Mardin 6% Slope Depth to saturated zone Dense layer Dusty Unstable excavation walls Volusia 3% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty

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Aggregation Method: Dominant Condition

Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
152E	Valois gravelly loam, 25 to 35 percent slopes	Very limited	Valois 85% Slope Unstable excavation walls Dusty Cadosia 6% Slope Dusty Unstable excavation walls Large stones Mardin 6% Slope Depth to saturated zone Dense layer Dusty Unstable excavation walls Towerville, extremely stony 3% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Large stones
153B	Valois gravelly loam, cool, 3 to 8 percent slopes	Somewhat limited	Valois, cool 85% Unstable excavation walls Dusty Rockrift 5% Large stones Unstable excavation walls Dusty
153C	Valois gravelly loam, cool, 8 to 15 percent slopes	Somewhat limited	Valois, cool 85% Slope Unstable excavation walls Dusty Rockrift 5% Slope Large stones Unstable excavation walls Dusty
153D	Valois gravelly loam, cool, 15 to 25 percent slopes	Very limited	Valois, cool 85% Slope Unstable excavation walls Dusty Rockrift 6% Slope Large stones Unstable excavation walls Dusty Willdin 6% Slope Depth to saturated zone Dense layer Unstable excavation walls Dusty Ontusia 3% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
153E	Valois gravelly loam, cool, 25 to 35 percent slopes	Very limited	Valois, cool 85% Slope Unstable excavation walls Dusty Rockruff 6% Slope Large stones Unstable excavation walls Dusty Willdin 6% Slope Depth to saturated zone Dense layer Unstable excavation walls Dusty Ischua 3% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty
162B	Willdin channery silt loam, 3 to 8 percent slopes	Very limited	Willdin 85% Depth to saturated zone Unstable excavation walls Dusty Lewbath 5% Depth to saturated zone Slope Unstable excavation walls Dusty Middlebrook 5% Depth to saturated zone Depth to hard bedrock Dense layer Unstable excavation walls Dusty Ontusia 5% Depth to saturated zone Dense layer Unstable excavation walls Dusty

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
162C	Willdin channery silt loam, 8 to 15 percent slopes	Very limited	Willdin 85% Depth to saturated zone Slope Unstable excavation walls Dusty Ontusia 6% Depth to saturated zone Dense layer Unstable excavation walls Dusty Lewbath 6% Slope Depth to saturated zone Unstable excavation walls Dusty Middlebrook 3% Depth to saturated zone Depth to hard bedrock Slope Dense layer Unstable excavation walls
162D	Willdin channery silt loam, 15 to 25 percent slopes	Very limited	Willdin 80% Slope Depth to saturated zone Unstable excavation walls Dusty Lewbath 10% Slope Depth to saturated zone Unstable excavation walls Dusty Mongaup 5% Slope Depth to hard bedrock Large stones Unstable excavation walls Dusty Ontusia 5% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty
168A	Ontusia channery silt loam, 0 to 3 percent slopes	Very limited	Ontusia 88% Depth to saturated zone Dense layer Unstable excavation walls Dusty Willdin 5% Depth to saturated zone Unstable excavation walls Dusty Norchip 5% Depth to saturated zone Unstable excavation walls Dusty Gretor 2% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
168B	Ontusia channery silt loam, 3 to 8 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Dense layer Unstable excavation walls Dusty Norchip 5% Depth to saturated zone Unstable excavation walls Dusty Willdin 5% Depth to saturated zone Slope Unstable excavation walls Dusty
168C	Ontusia channery silt loam, 8 to 15 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty Norchip 5% Depth to saturated zone Unstable excavation walls Dusty Willdin 5% Slope Depth to saturated zone Unstable excavation walls Dusty
168D	Ontusia channery silt loam, 15 to 25 percent slopes	Very limited	Ontusia 90% Slope Depth to saturated zone Dense layer Unstable excavation walls Dusty Willdin 7% Slope Depth to saturated zone Unstable excavation walls Dusty Norchip 3% Depth to saturated zone Unstable excavation walls Dusty

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171C	Lordstown-Manlius-Towerville complex, 8 to 15 percent slopes, very stony	Very limited	Lordstown, very stony 40% Depth to hard bedrock Slope Unstable excavation walls Dusty Towerville, very stony 20% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Slope Large stones Mardin, very stony 5% Depth to saturated zone Slope Unstable excavation walls Dusty Arnot, very stony 5% Depth to hard bedrock Organic matter content Slope Large stones Unstable excavation walls
171D	Lordstown-Manlius-Towerville complex, 15 to 25 percent slopes, very stony	Very limited	Lordstown, very stony 40% Depth to hard bedrock Slope Unstable excavation walls Dusty Manlius, very stony 20% Slope Unstable excavation walls Depth to soft bedrock Large stones Dusty Towerville, very stony 20% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Large stones Cadosia, very stony 10% Slope Large stones Unstable excavation walls Dusty Arnot, very stony 5% Depth to hard bedrock Slope Organic matter content Large stones Unstable excavation walls Mardin 5% Depth to saturated zone Slope Unstable excavation walls Dusty

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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	<p>Lordstown, extremely stony 40%</p> <ul style="list-style-type: none"> Depth to hard bedrock Slope Unstable excavation walls Dusty <p>Towerville, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Large stones <p>Manlius, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Unstable excavation walls Depth to soft bedrock Large stones Dusty <p>Cadosia, extremely stony 10%</p> <ul style="list-style-type: none"> Slope Large stones Unstable excavation walls Dusty <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> Depth to hard bedrock Slope Organic matter content Large stones Unstable excavation walls <p>Mardin, extremely stony 5%</p> <ul style="list-style-type: none"> Slope Depth to saturated zone Unstable excavation walls Dusty
171F	Lordstown-Manlius-Towerville complex, 35 to 80 percent slopes, extremely stony	Very limited	<p>Lordstown, extremely stony 40%</p> <ul style="list-style-type: none"> Depth to hard bedrock Slope Unstable excavation walls Dusty <p>Towerville, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Large stones <p>Manlius, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Unstable excavation walls Depth to soft bedrock Large stones Dusty <p>Arnot, extremely stony 10%</p> <ul style="list-style-type: none"> Depth to hard bedrock Slope Organic matter content Large stones Unstable excavation walls <p>Cadosia, extremely stony 10%</p> <ul style="list-style-type: none"> Slope Large stones Unstable excavation walls Dusty

Shallow Excavations

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
177A	Norchip silt loam, 0 to 3 percent slopes	Very limited	Norchip 85% Depth to saturated zone Unstable excavation walls Dusty Norchip, very poorly drained 10% Ponding Depth to saturated zone Organic matter content Unstable excavation walls Dusty Ontusia 5% Depth to saturated zone Dense layer Unstable excavation walls Dusty
177B	Norchip silt loam, 3 to 8 percent slopes	Very limited	Norchip 85% Depth to saturated zone Unstable excavation walls Dusty Norchip, very poorly drained 10% Ponding Depth to saturated zone Organic matter content Unstable excavation walls Dusty Ontusia 5% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty
181B	Mongaup-Ischua complex, 3 to 8 percent slopes	Very limited	Mongaup 45% Depth to hard bedrock Unstable excavation walls Dusty Ischua 40% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty Willdin 3% Depth to saturated zone Dense layer Unstable excavation walls Dusty Greter 2% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty

Shallow Excavations

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
181C	Mongaup-Ischua complex, 8 to 15 percent slopes	Very limited	Mongaup 45% Depth to hard bedrock Slope Unstable excavation walls Dusty Ischua 40% Depth to saturated zone Depth to hard bedrock Slope Unstable excavation walls Dusty Willdin 3% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty Greter 2% Depth to saturated zone Depth to hard bedrock Slope Unstable excavation walls Dusty
181D	Mongaup-Ischua complex, 15 to 25 percent slopes, very stony	Very limited	Mongaup, very stony 45% Slope Depth to hard bedrock Unstable excavation walls Dusty Ischua, very stony 40% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty Rockrift 10% Slope Large stones Unstable excavation walls Dusty Willdin 3% Slope Depth to saturated zone Dense layer Unstable excavation walls Dusty Greter 2% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty

Shallow Excavations

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
181E	Mongaup-Ischua complex, 25 to 35 percent slopes, extremely stony	Very limited	Mongaup, extremely stony 45% Slope Depth to hard bedrock Unstable excavation walls Dusty Ischua, extremely stony 40% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty Rockrift 10% Slope Large stones Unstable excavation walls Dusty Willdin 3% Slope Depth to saturated zone Dense layer Unstable excavation walls Dusty Greter 2% Slope Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty
182B	Mongaup channery loam, 3 to 8 percent slopes	Very limited	Mongaup 75% Depth to hard bedrock Unstable excavation walls Dusty Willdin 8% Depth to saturated zone Dense layer Unstable excavation walls Dusty Ischua 5% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty Greter 2% Depth to saturated zone Depth to hard bedrock Unstable excavation walls Dusty

Shallow Excavations

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
182C	Mongaup channery loam, 8 to 15 percent slopes	Very limited	Mongaup 75% Depth to hard bedrock Slope Unstable excavation walls Dusty Willdin 8% Depth to saturated zone Slope Dense layer Unstable excavation walls Dusty Ischua 5% Depth to saturated zone Depth to hard bedrock Slope Unstable excavation walls Dusty Greter 2% Depth to saturated zone Depth to hard bedrock Slope Unstable excavation walls Dusty
201A	Lima loam, 0 to 3 percent slopes	Very limited	Lima 85% Depth to saturated zone Unstable excavation walls Dusty Kendaia 3% Depth to saturated zone Dusty Unstable excavation walls Appleton 3% Depth to saturated zone Unstable excavation walls Dusty Cazenovia 2% Depth to saturated zone Dusty Unstable excavation walls Lyons 2% Depth to saturated zone Dusty Unstable excavation walls

Shallow Excavations

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
201B	Lima loam, 3 to 8 percent slopes	Very limited	Lima 85% Depth to saturated zone Unstable excavation walls Dusty Kendaia 3% Depth to saturated zone Dusty Unstable excavation walls Appleton 3% Depth to saturated zone Unstable excavation walls Dusty Cazenovia 2% Depth to saturated zone Dusty Unstable excavation walls Lyons 1% Depth to saturated zone Dusty Unstable excavation walls
201C	Lima loam, 8 to 15 percent slopes	Very limited	Lima 85% Depth to saturated zone Slope Unstable excavation walls Dusty Appleton 3% Depth to saturated zone Slope Unstable excavation walls Dusty Kendaia 3% Depth to saturated zone Slope Dusty Unstable excavation walls Cazenovia 2% Depth to saturated zone Slope Dusty Unstable excavation walls
204A	Lima loam, 0 to 3 percent slopes, lower clay surface	Very limited	Lima 85% Depth to saturated zone Unstable excavation walls Dusty Appleton 3% Depth to saturated zone Unstable excavation walls Dusty Kendaia 3% Depth to saturated zone Dusty Unstable excavation walls Lyons 2% Depth to saturated zone Dusty Unstable excavation walls Cazenovia 2% Depth to saturated zone Dusty Unstable excavation walls

Shallow Excavations

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
204B	Lima loam, 3 to 8 percent slopes, lower clay surface	Very limited	Lima 85% Depth to saturated zone Unstable excavation walls Dusty Appleton 3% Depth to saturated zone Unstable excavation walls Dusty Kendaia 3% Depth to saturated zone Dusty Unstable excavation walls Cazenovia 2% Depth to saturated zone Dusty Unstable excavation walls Lyons 1% Depth to saturated zone Dusty Unstable excavation walls
210A	Phelps gravelly silt loam, 0 to 3 percent slopes	Very limited	Phelps 85% Depth to saturated zone Dusty Unstable excavation walls Galen 10% Depth to saturated zone Unstable excavation walls Dusty Homer 5% Depth to saturated zone Unstable excavation walls Dusty
210B	Phelps gravelly silt loam, 3 to 8 percent slopes	Very limited	Phelps 85% Depth to saturated zone Dusty Unstable excavation walls Galen 10% Depth to saturated zone Unstable excavation walls Dusty Homer 5% Depth to saturated zone Unstable excavation walls Dusty
212A	Nuhi silt loam, 0 to 3 percent slopes	Very limited	Nuhi 85% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Farmington 10% Depth to hard bedrock Dusty Unstable excavation walls Nuhi, poorly drained 5% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls

Shallow Excavations

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
240B	Aurora-Angola silt loams, 3 to 8 percent slopes	Very limited	Aurora 60% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Angola 30% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Danley 5% Depth to saturated zone Dusty Unstable excavation walls Darien 5% Depth to saturated zone Dusty Unstable excavation walls
240C	Aurora-Angola silt loams, 8 to 15 percent slopes	Very limited	Aurora 60% Depth to saturated zone Depth to hard bedrock Slope Dusty Unstable excavation walls Angola 30% Depth to saturated zone Depth to hard bedrock Slope Dusty Unstable excavation walls Darien 5% Depth to saturated zone Slope Dusty Unstable excavation walls Danley 5% Depth to saturated zone Slope Dusty Unstable excavation walls

Shallow Excavations

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 Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Angola 30% Slope Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Darien 5% Slope Depth to saturated zone Dusty Unstable excavation walls Danley 5% Slope Depth to saturated zone Dusty Unstable excavation walls
241B	Aurora silt loam, 3 to 8 percent slopes	Very limited	Aurora 85% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Angola 10% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Danley 5% Depth to saturated zone Dusty Unstable excavation walls
241C	Aurora silt loam, 8 to 15 percent slopes	Very limited	Aurora 85% Depth to saturated zone Depth to hard bedrock Slope Dusty Unstable excavation walls Angola 8% Depth to saturated zone Depth to hard bedrock Slope Dusty Unstable excavation walls Danley 7% Depth to saturated zone Slope Dusty Unstable excavation walls

Shallow Excavations

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
241D	Aurora silt loam, 15 to 25 percent slopes	Very limited	Aurora 85% Slope Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Danley 10% Slope Depth to saturated zone Dusty Unstable excavation walls Angola 5% Slope Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls
255B	Cazenovia silt loam, 3 to 8 percent slopes	Very limited	Cazenovia 85% Depth to saturated zone Dusty Unstable excavation walls Ovid 10% Depth to saturated zone Dusty Unstable excavation walls Cayuga 5% Depth to saturated zone Dusty Unstable excavation walls Too clayey
255C	Cazenovia silt loam, 8 to 15 percent slopes	Very limited	Cazenovia 85% Depth to saturated zone Slope Dusty Unstable excavation walls Cayuga 8% Depth to saturated zone Slope Dusty Unstable excavation walls Too clayey Ovid 7% Depth to saturated zone Slope Dusty Unstable excavation walls

Shallow Excavations

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
255D	Cazenovia silt loam, 15 to 25 percent slopes	Very limited	Cazenovia 85% Slope Depth to saturated zone Dusty Unstable excavation walls Cayuga 10% Slope Depth to saturated zone Dusty Unstable excavation walls Too clayey Ovid 5% Depth to saturated zone Slope Dusty Unstable excavation walls
260B	Cayuga silt loam, 3 to 8 percent slopes	Very limited	Cayuga 85% Depth to saturated zone Dusty Unstable excavation walls Too clayey Schoharie 10% Depth to saturated zone Too clayey Dusty Unstable excavation walls Odessa 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls
260C	Cayuga silt loam, 8 to 15 percent slopes	Very limited	Cayuga 85% Depth to saturated zone Slope Dusty Unstable excavation walls Too clayey Schoharie 10% Depth to saturated zone Too clayey Slope Dusty Unstable excavation walls Odessa 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls

Shallow Excavations

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 Depth to saturated zone Dusty Unstable excavation walls Too clayey Lansing 10% Slope Dusty Unstable excavation walls Schoharie 5% Slope Depth to saturated zone Too clayey Dusty Unstable excavation walls
304A	Kendaia loam, 0 to 3 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Dusty Unstable excavation walls Lima 6% Depth to saturated zone Unstable excavation walls Dusty Lyons 5% Depth to saturated zone Dusty Unstable excavation walls Ovid 2% Depth to saturated zone Dusty Unstable excavation walls Churchville 2% Depth to saturated zone Dusty Unstable excavation walls
304B	Kendaia loam, 3 to 8 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Dusty Unstable excavation walls Lima 7% Depth to saturated zone Unstable excavation walls Dusty Lyons 4% Depth to saturated zone Dusty Unstable excavation walls Churchville 2% Depth to saturated zone Dusty Unstable excavation walls Ovid 2% Depth to saturated zone Dusty Unstable excavation walls

Shallow Excavations

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% Depth to saturated zone Depth to hard bedrock Dusty Unstable excavation walls Darien 5% Depth to saturated zone Dusty Unstable excavation walls Ilion 5% Depth to saturated zone Dusty Unstable excavation walls
356A	Ovid silt loam, 0 to 3 percent slopes	Very limited	Ovid 85% Depth to saturated zone Dusty Unstable excavation walls Odessa 10% Depth to saturated zone Too clayey Dusty Unstable excavation walls Lakemont 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls
356B	Ovid silt loam, 3 to 8 percent slopes	Very limited	Ovid 85% Depth to saturated zone Dusty Unstable excavation walls Odessa 10% Depth to saturated zone Too clayey Dusty Unstable excavation walls Lakemont 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls
357B	Ovid silty clay loam, 3 to 8 percent slopes	Very limited	Ovid 85% Depth to saturated zone Dusty Unstable excavation walls Odessa 10% Depth to saturated zone Too clayey Dusty Unstable excavation walls Lakemont 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls

Shallow Excavations

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% Depth to saturated zone Slope Dusty Unstable excavation walls Odessa 10% Depth to saturated zone Too clayey Dusty Unstable excavation walls Lakemont 5% Depth to saturated zone Too clayey Dusty Unstable excavation walls
400A	Udorthents, loamy, 0 to 3 percent slopes	Somewhat limited	Udorthents, loamy 80% Dusty Unstable excavation walls Howard 5% Dusty Unstable excavation walls Ontario 5% Unstable excavation walls Dusty Palmyra 5% Dusty Unstable excavation walls
401D	Udorthents, refuse substratum. 0 to 25 percent slopes	Very limited	Udorthents, refuse substratum 90% Slope Dusty Unstable excavation walls Udorthents, Loamy 10% Slope Dusty Unstable excavation walls
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%

Shallow Excavations

Rating Options

Attribute Name: Shallow Excavations

ENG - Engineering

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to the seasonal high water table, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to the water table, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

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.