

Lawns, Landscaping, and Golf Fairways

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% Flooding Depth to saturated zone Low exchange capacity Gravel content Udifuvents, frequently flooded 40% Flooding Droughty Large stones content Low exchange capacity Depth to saturated zone Wayland 10% Flooding Depth to saturated zone Low exchange capacity Dusty
2A	Geneseo silty clay loam, 0 to 3 percent slopes	Somewhat limited	Geneseo 90% Flooding Dusty Naples Creek 10% Depth to saturated zone Flooding Dusty
3A	Hemlock silty clay loam, 0 to 3 percent slopes	Somewhat limited	Hemlock 90% Flooding Depth to saturated zone Dusty Naples Creek 10% Depth to saturated zone Flooding Dusty
4A	Naples Creek silty clay loam, 0 to 3 percent slopes	Somewhat limited	Naples Creek 90% Depth to saturated zone Flooding Dusty Hemlock 5% Flooding Depth to saturated zone Dusty
5A	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Very limited	Wayland 60% Flooding Depth to saturated zone Low exchange capacity Dusty Wayland, very poorly drained 30% Ponding Flooding Depth to saturated zone Dusty

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12D	Rockrift channery silt loam, 15 to 25 percent slopes	Very limited	Rockrift 85% Slope Low exchange capacity Large stones content Dusty Mongaup, very stony 10% Slope Depth to bedrock Low exchange capacity Large stones content Droughty Willdin 5% Slope Low exchange capacity Large stones content Depth to saturated zone Gravel content
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 Large stones content Low exchange capacity Gravel content Dusty Lordstown, very stony 10% Slope Gravel content Depth to bedrock Large stones content Dusty Mardin 5% Slope Low exchange capacity Depth to saturated zone Large stones content Droughty
15A	Guyanoga channery silt loam, fan, 0 to 3 percent slopes	Somewhat limited	Guyanoga, fan 90% Large stones content Gravel content Dusty Chenango, fan 5% Low exchange capacity Gravel content Large stones content Droughty Dusty Hemlock 5% Flooding Depth to saturated zone Dusty

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15B	Guyanoga channery silt loam, fan, 3 to 8 percent slopes	Somewhat limited	Guyanoga, fan 90% Large stones content Gravel content Dusty Hemlock 5% Flooding Depth to saturated zone Dusty Chenango, fan 5% Low exchange capacity Gravel content Large stones content Droughty Dusty
16A	Almond channery silt loam, 0 to 3 percent slopes	Very limited	Almond 80% Depth to saturated zone Low exchange capacity Large stones content Dusty Norchip 8% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Ontusia 7% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty
16B	Almond channery silt loam, 3 to 8 percent slopes	Very limited	Almond 80% Depth to saturated zone Low exchange capacity Large stones content Dusty Ontusia 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Norchip 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty

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16C	Almond channery silt loam, 8 to 15 percent slopes	Very limited	Almond 80% Depth to saturated zone Low exchange capacity Slope Large stones content Dusty Salamanca 5% Slope Depth to saturated zone Large stones content Dusty Norchip 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Ontusia 5% Depth to saturated zone Slope Low exchange capacity Droughty Large stones content Gretor 5% Slope Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content
18A	Homer fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Homer 90% Depth to saturated zone Dusty Phelps 5% Depth to saturated zone Dusty Gravel content
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 Atherton 7% Depth to saturated zone Low exchange capacity Dusty Palms, undrained 5% Ponding Organic matter content Depth to saturated zone Dusty

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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 Low exchange capacity Dusty Fine-loamy, mixed, active, mesic Typic Argiaquolls 39% Ponding Depth to saturated zone Dusty Canandaigua 7% Depth to saturated zone Low exchange capacity Dusty
24A	Howard gravelly loam, 0 to 3 percent slopes	Somewhat limited	Howard 80% Gravel content Low exchange capacity Dusty Palmyra 10% Low exchange capacity Dusty Arkport 5% Low exchange capacity Phelps 5% Depth to saturated zone Dusty Gravel content
24B	Howard gravelly loam, 3 to 8 percent slopes	Somewhat limited	Howard 80% Gravel content Low exchange capacity Dusty Palmyra 10% Large stones content Dusty Arkport 5% Low exchange capacity Phelps 5% Depth to saturated zone Dusty Gravel content
24C	Howard gravelly loam, 8 to 15 percent slopes	Somewhat limited	Howard 80% Gravel content Low exchange capacity Slope Dusty Palmyra 10% Slope Large stones content Dusty Arkport 5% Low exchange capacity Slope Phelps 5% Depth to saturated zone Dusty Gravel content

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24D	Howard soils, 15 to 25 percent slopes	Very limited	Howard 65% Slope Gravel content Low exchange capacity Dusty Palmyra 20% Slope Large stones content Dusty Arkport 13% Slope Low exchange capacity
25A	Chenango gravelly loam, 0 to 3 percent slopes	Somewhat limited	Chenango 90% Low exchange capacity Gravel content Dusty Droughty Castile 8% Low exchange capacity Depth to saturated zone Gravel content Dusty Valois 2% Low exchange capacity Dusty Gravel content
25B	Chenango gravelly loam, 3 to 8 percent slopes	Somewhat limited	Chenango 90% Low exchange capacity Gravel content Dusty Droughty Castile 5% Low exchange capacity Depth to saturated zone Gravel content Dusty Valois 5% Low exchange capacity Dusty Gravel content
25C	Chenango gravelly loam, 8 to 15 percent slopes	Somewhat limited	Chenango 90% Low exchange capacity Gravel content Slope Dusty Droughty Castile 5% Low exchange capacity Depth to saturated zone Gravel content Slope Dusty Valois 5% Low exchange capacity Slope Dusty Gravel content

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25D	Chenango gravelly loam, 15 to 25 percent slopes	Very limited	Chenango 90% Slope Droughty Large stones content Dusty Valois 2% Slope Low exchange capacity Dusty Gravel content
25E	Chenango gravelly loam, 25 to 35 percent slopes	Very limited	Chenango 90% Slope Droughty Large stones content Dusty Valois 10% Slope Low exchange capacity Dusty Gravel content
26B	Chenango channery loam, fan, 3 to 8 percent slopes	Somewhat limited	Chenango, fan 85% Low exchange capacity Gravel content Large stones content Droughty Dusty Guyanoga, fan 5% Large stones content Gravel content Dusty Castile 5% Low exchange capacity Depth to saturated zone Gravel content Dusty Hemlock 5% Flooding Depth to saturated zone Dusty
27B	Castile gravelly silt loam, 3 to 8 percent slopes	Somewhat limited	Castile 85% Low exchange capacity Depth to saturated zone Gravel content Dusty Phelps 5% Depth to saturated zone Dusty Gravel content Chenango 5% Low exchange capacity Gravel content Dusty Droughty Homer 5% Depth to saturated zone Dusty

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

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32B	Dunkirk fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Dunkirk 90% Low exchange capacity Dusty Arkport 4% Low exchange capacity Schoharie 3% Depth to saturated zone Dusty Niagara 3% Depth to saturated zone Dusty
33A	Dunkirk silt loam, 0 to 3 percent slopes	Somewhat limited	Dunkirk 90% Low exchange capacity Dusty Arkport 4% Low exchange capacity Niagara 3% Depth to saturated zone Dusty Schoharie 3% Depth to saturated zone Dusty
33B	Dunkirk silt loam, 3 to 8 percent slopes	Somewhat limited	Dunkirk 90% Low exchange capacity Dusty Arkport 4% Low exchange capacity Schoharie 3% Depth to saturated zone Dusty Niagara 3% Depth to saturated zone Dusty
33C	Dunkirk silt loam, 8 to 15 percent slopes	Somewhat limited	Dunkirk 90% Slope Low exchange capacity Dusty Arkport 4% Low exchange capacity Slope Schoharie 3% Slope Depth to saturated zone Dusty Niagara 3% Depth to saturated zone Dusty
33D	Dunkirk silt loam, 15 to 25 percent slopes	Very limited	Dunkirk 90% Slope Low exchange capacity Dusty Schoharie 5% Slope Depth to saturated zone Dusty Arkport 5% Slope Low exchange capacity

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33E	Dunkirk silt loam, 25 to 35 percent slopes	Very limited	Dunkirk 90% Slope Low exchange capacity Dusty Schoharie 5% Slope Depth to saturated zone Dusty Arkport 5% Slope Low exchange capacity
34A	Lakemont silty clay loam, 0 to 3 percent slopes	Very limited	Lakemont 85% Depth to saturated zone Dusty Odessa 5% Depth to saturated zone Dusty Fonda 4% Ponding Depth to saturated zone Dusty Canandaigua 4% Depth to saturated zone Low exchange capacity Dusty Barre 2% Depth to saturated zone Dusty
35A	Odessa silt loam, 0 to 3 percent slopes	Very limited	Odessa 85% Depth to saturated zone Dusty Lakemont 5% Depth to saturated zone Dusty Churchville 3% Depth to saturated zone Droughty Dusty
35B	Odessa silty clay loam, 3 to 8 percent slopes	Very limited	Odessa 85% Depth to saturated zone Dusty Lakemont 4% Depth to saturated zone Dusty Churchville 3% Depth to saturated zone Droughty Dusty
36A	Schoharie silty clay loam, 0 to 3 percent slopes	Somewhat limited	Schoharie 85% Dusty Cazenovia 5% Depth to saturated zone Dusty Cayuga 3% Depth to saturated zone Dusty Collamer 2% Low exchange capacity Depth to saturated zone Dusty

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36B	Schoharie silty clay loam, 3 to 8 percent slopes	Somewhat limited	Schoharie 85% Dusty Cazenovia 5% Depth to saturated zone Dusty Cayuga 3% Depth to saturated zone Dusty Collamer 2% Low exchange capacity Depth to saturated zone Dusty
36C	Schoharie silty clay loam, 8 to 15 percent slopes	Somewhat limited	Schoharie 85% Slope Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Cayuga 3% Slope Depth to saturated zone Dusty Collamer 2% Low exchange capacity Depth to saturated zone Slope Dusty
36D	Schoharie silty clay loam, 15 to 25 percent slopes	Very limited	Schoharie 85% Slope Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Odessa 5% Slope Depth to saturated zone Dusty Cayuga 3% Slope Depth to saturated zone Dusty Collamer 2% Slope Low exchange capacity Depth to saturated zone Dusty

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36E	Schoharie silty clay loam, 25 to 45 percent slopes	Very limited	Schoharie 85% Slope Dusty Odessa 5% Slope Depth to saturated zone Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Cayuga 3% Slope Depth to saturated zone Dusty Collamer 2% Slope Low exchange capacity Depth to saturated zone Dusty
37A	Schoharie silt loam, 0 to 3 percent slopes	Somewhat limited	Schoharie 85% Dusty Cazenovia 5% Depth to saturated zone Dusty Cayuga 3% Depth to saturated zone Dusty Collamer 2% Low exchange capacity Depth to saturated zone Dusty
37B	Schoharie silt loam, 3 to 8 percent slopes	Somewhat limited	Schoharie 85% Dusty Cazenovia 5% Depth to saturated zone Dusty Cayuga 3% Depth to saturated zone Dusty Collamer 2% Low exchange capacity Depth to saturated zone Dusty
38A	Niagara silt loam, 0 to 3 percent slopes	Somewhat limited	Niagara 85% Depth to saturated zone Dusty Rhinebeck 5% Depth to saturated zone Dusty Collamer 5% Low exchange capacity Depth to saturated zone Dusty

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38B	Niagara silt loam, 3 to 8 percent slopes	Somewhat limited	Niagara 85% Depth to saturated zone Dusty Rhinebeck 5% Depth to saturated zone Dusty Collamer 5% Low exchange capacity Depth to saturated zone Dusty
39A	Rhinebeck silty clay loam, 0 to 3 percent slopes	Somewhat limited	Rhinebeck 90% Depth to saturated zone Dusty Niagara 5% Depth to saturated zone Dusty
41A	Aeric Epiaquepts, 0 to 3 percent slopes	Very limited	Aeric Epiaquepts 50% Depth to saturated zone Low exchange capacity Dusty Aeric Epiaquepts 45% Depth to saturated zone Low exchange capacity Dusty
43A	Canandaigua silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Depth to saturated zone Low exchange capacity Dusty Canandaigua 4% Ponding Depth to saturated zone Dusty Lakemont 3% Depth to saturated zone Dusty
44A	Canandaigua mucky silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Ponding Depth to saturated zone Dusty Canandaigua 5% Depth to saturated zone Low exchange capacity Dusty Lakemont 3% Depth to saturated zone Dusty Palms, undrained 2% Ponding Organic matter content Depth to saturated zone Dusty

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45A	Fonda mucky silt loam, 0 to 3 percent slopes	Very limited	Fonda 95% Ponding Depth to saturated zone Dusty Canandaigua 3% Ponding Depth to saturated zone Dusty Palms, undrained 2% Ponding Organic matter content Depth to saturated zone Dusty
46A	Galen fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Galen 90% Low exchange capacity Depth to saturated zone Dusty
46B	Galen fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Galen 90% Low exchange capacity Depth to saturated zone Dusty
48A	Arkport fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Arkport 95% Low exchange capacity Dunkirk 3% Low exchange capacity Dusty Galen 2% Low exchange capacity Depth to saturated zone Dusty
48B	Arkport fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Low exchange capacity Dunkirk 3% Low exchange capacity Dusty Galen 2% Low exchange capacity Depth to saturated zone Dusty
48C	Arkport fine sandy loam, 8 to 15 percent slopes	Somewhat limited	Arkport 95% Low exchange capacity Slope Dunkirk 3% Slope Low exchange capacity Dusty Galen 2% Low exchange capacity Depth to saturated zone Dusty

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48D	Arkport fine sandy loam, 15 to 25 percent slopes	Very limited	Arkport 90% Slope Low exchange capacity Dunkirk 8% Slope Low exchange capacity Dusty Palmyra 2% Slope Low exchange capacity Dusty
49B	Arkport loamy fine sand, 3 to 8 percent slopes	Very limited	Arkport 95% Low exchange capacity
49D	Arkport loamy fine sand, 15 to 25 percent slopes	Very limited	Arkport 95% Slope Low exchange capacity Dunkirk 3% Slope Low exchange capacity Dusty Palmyra 2% Slope Low exchange capacity Dusty
49E	Arkport loamy fine sand, 25 to 35 percent slopes	Very limited	Arkport 90% Slope Low exchange capacity Dunkirk 8% Slope Low exchange capacity Dusty Palmyra 2% Slope Low exchange capacity Dusty
49F	Arkport loamy fine sand, 35 to 55 percent slopes	Very limited	Arkport 90% Slope Low exchange capacity Dunkirk 8% Slope Low exchange capacity Dusty Palmyra 2% Slope Low exchange capacity Dusty
50B	Dunkirk-Arkport complex, 3 to 8 percent slopes	Somewhat limited	Dunkirk 50% Low exchange capacity Dusty Arkport 45% Low exchange capacity Collamer 5% Low exchange capacity Depth to saturated zone Dusty

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50C	Dunkirk-Arkport complex, 8 to 15 percent slopes	Somewhat limited	Dunkirk 60% Low exchange capacity Slope Dusty Arkport 35% Low exchange capacity Slope Collamer 5% Low exchange capacity Slope Depth to saturated zone Dusty
50D	Dunkirk-Arkport complex, 15 to 25 percent slopes	Very limited	Dunkirk 60% Slope Low exchange capacity Dusty Arkport 35% Slope Low exchange capacity Collamer 5% Slope Low exchange capacity Depth to saturated zone Dusty
53A	Lamson fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Depth to saturated zone Low exchange capacity Lamson 5% Ponding Depth to saturated zone Canandaigua 3% Depth to saturated zone Low exchange capacity Dusty
54A	Lamson mucky fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Ponding Depth to saturated zone Canandaigua 5% Depth to saturated zone Low exchange capacity Dusty Lamson 5% Depth to saturated zone Low exchange capacity
56A	Elnora loamy fine sand, 0 to 3 percent slopes	Somewhat limited	Elnora 90% Low exchange capacity Droughty Depth to saturated zone
58B	Colonie loamy fine sand, 3 to 8 percent slopes	Very limited	Colonie 95% Low exchange capacity Droughty
58C	Colonie loamy fine sand, 8 to 15 percent slopes	Very limited	Colonie 95% Low exchange capacity Droughty Slope

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62B	Mardin channery silt loam, 3 to 8 percent slopes	Somewhat limited	Mardin 85% Depth to saturated zone Low exchange capacity Large stones content Droughty Dusty Bath 5% Low exchange capacity Slope Large stones content Depth to saturated zone Dusty
62C	Mardin channery silt loam, 8 to 15 percent slopes	Somewhat limited	Mardin 88% Depth to saturated zone Low exchange capacity Slope Large stones content Droughty
62D	Mardin channery silt loam, 15 to 25 percent slopes	Very limited	Mardin 85% Slope Depth to saturated zone Low exchange capacity Large stones content Droughty Lordstown 5% Slope Large stones content Depth to bedrock Dusty Volusia 5% Depth to saturated zone Slope Low exchange capacity Droughty Large stones content Bath 5% Slope Low exchange capacity Large stones content Depth to saturated zone Dusty

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62E	Mardin channery silt loam, 25 to 35 percent slopes	Very limited	Mardin 80% Slope Depth to saturated zone Low exchange capacity Large stones content Droughty Bath 8% Slope Low exchange capacity Large stones content Depth to saturated zone Dusty Lordstown, very stony 7% Slope Large stones content Depth to bedrock Dusty Volusia 5% Slope Depth to saturated zone Droughty Low exchange capacity Large stones content
63B	Langford channery silt loam, 3 to 8 percent slopes	Somewhat limited	Langford 85% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Schuyler 5% Low exchange capacity Depth to saturated zone Large stones content Dusty
63C	Langford channery silt loam, 8 to 15 percent slopes	Somewhat limited	Langford 85% Slope Depth to saturated zone Low exchange capacity Droughty Large stones content Chadakoin 5% Low exchange capacity Slope Dusty Schuyler 5% Low exchange capacity Depth to saturated zone Slope Large stones content Dusty

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63D	Langford channery silt loam, 15 to 25 percent slopes	Very limited	Langford 80% Slope Depth to saturated zone Droughty Large stones content Dusty Erie 5% Depth to saturated zone Slope Droughty Low exchange capacity Large stones content Schuyler 5% Slope Depth to saturated zone Large stones content Dusty Towerville 5% Slope Low exchange capacity Depth to saturated zone Depth to bedrock Large stones content Chadakoin 5% Slope Low exchange capacity Dusty
64B	Langford-Erie channery silt loams, 3 to 8 percent slopes	Very limited	Erie 40% Depth to saturated zone Droughty Low exchange capacity Large stones content Dusty Chippewa 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Fremont 5% Depth to saturated zone Low exchange capacity Large stones content Dusty

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66A	Lyons soils, 0 to 3 percent slopes	Very limited	Lyons 75% Depth to saturated zone Low exchange capacity Dusty Lyons, frequently ponded 15% Ponding Depth to saturated zone Low exchange capacity Dusty Appleton 3% Depth to saturated zone Low exchange capacity Dusty Canandaigua 3% Depth to saturated zone Low exchange capacity Dusty Kendaia 2% Depth to saturated zone Low exchange capacity Dusty Palms, undrained 1% Ponding Organic matter content Depth to saturated zone Dusty Ilion 1% Depth to saturated zone Low exchange capacity Dusty
68A	Volusia channery silt loam, 0 to 3 percent slopes	Very limited	Volusia 90% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Chippewa 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty
68B	Volusia channery silt loam, 3 to 8 percent slopes	Very limited	Volusia 90% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Chippewa 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty

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68C	Volusia channery silt loam, 8 to 15 percent slopes	Very limited	Volusia 90% Depth to saturated zone Slope Low exchange capacity Droughty Large stones content Mardin 6% Slope Depth to saturated zone Low exchange capacity Large stones content Droughty Chippewa 4% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty
68D	Volusia channery silt loam, 15 to 25 percent slopes	Very limited	Volusia 90% Slope Depth to saturated zone Low exchange capacity Droughty Large stones content Mardin 7% Slope Depth to saturated zone Low exchange capacity Large stones content Droughty Chippewa 3% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty
69A	Erie channery silt loam, 0 to 3 percent slopes	Very limited	Erie 80% Depth to saturated zone Droughty Low exchange capacity Large stones content Dusty Chippewa 10% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Fremont 5% Depth to saturated zone Low exchange capacity Large stones content Dusty

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69B	Erie channery silt loam, 3 to 8 percent slopes	Very limited	Erie 80% Depth to saturated zone Droughty Low exchange capacity Large stones content Dusty Chippewa 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Fremont 5% Depth to saturated zone Low exchange capacity Large stones content Dusty
69C	Erie channery silt loam, 8 to 15 percent slopes	Very limited	Erie 80% Depth to saturated zone Slope Droughty Low exchange capacity Large stones content Langford 10% Slope Depth to saturated zone Droughty Large stones content Dusty Fremont 5% Depth to saturated zone Low exchange capacity Slope Large stones content Dusty Chippewa 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty
71A	Darien silt loam, 0 to 3 percent slopes	Somewhat limited	Darien 95% Depth to saturated zone Low exchange capacity Dusty Angola 1% Depth to saturated zone Depth to bedrock Dusty Droughty
71B	Darien silt loam, 3 to 8 percent slopes	Somewhat limited	Darien 95% Depth to saturated zone Low exchange capacity Dusty Angola 1% Depth to saturated zone Depth to bedrock Dusty Droughty

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71C	Darien silt loam, 8 to 15 percent slopes	Somewhat limited	Darien 95% Depth to saturated zone Slope Low exchange capacity Dusty Angola 1% Depth to saturated zone Depth to bedrock Slope Dusty Droughty
72A	Darien-Ilion silt loams, 0 to 3 percent slopes	Somewhat limited	Darien 68% Depth to saturated zone Low exchange capacity Dusty Angola 5% Depth to saturated zone Depth to bedrock Dusty Droughty
72B	Darien-Ilion silt loams, 3 to 8 percent slopes	Somewhat limited	Darien 68% Depth to saturated zone Low exchange capacity Dusty Angola 5% Depth to saturated zone Depth to bedrock Dusty Droughty
73B	Greter silt loam, 3 to 8 percent slopes	Somewhat limited	Greter 95% Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content Dusty
73C	Greter silt loam, 8 to 15 percent slopes	Somewhat limited	Greter 95% Depth to saturated zone Depth to bedrock Low exchange capacity Slope Large stones content
73D	Greter channery silt loam, 15 to 25 percent slopes	Very limited	Greter 90% Slope Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content Mongaup, very stony 8% Slope Depth to bedrock Low exchange capacity Large stones content Droughty Greter, poorly drained 2% Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content Dusty

Lawns, Landscaping, and Golf Fairways

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
76B	Orpark silt loam, 3 to 8 percent slopes	Somewhat limited	Orpark 95% Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content Dusty
76C	Orpark silt loam, 8 to 15 percent slopes	Somewhat limited	Orpark 95% Depth to saturated zone Depth to bedrock Low exchange capacity Slope Large stones content
76D	Orpark channery silt loam, 15 to 25 percent slopes	Very limited	Orpark 90% Slope Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content Orpark, poorly drained 5% Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content Dusty Lordstown, very stony 5% Slope Gravel content Depth to bedrock Large stones content Dusty
77A	Chippewa silt loam, 0 to 3 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Chippewa, very poorly drained 10% Ponding Depth to saturated zone Droughty Large stones content Dusty Volusia 5% Depth to saturated zone Droughty Low exchange capacity Large stones content Dusty

Lawns, Landscaping, and Golf Fairways

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
77B	Chippewa silt loam, 3 to 8 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Volusia 10% Depth to saturated zone Slope Droughty Low exchange capacity Large stones content Chippewa, very poorly drained 5% Ponding Depth to saturated zone Droughty Large stones content Dusty
82B	Manlius channery silt loam, 3 to 8 percent slopes	Somewhat limited	Manlius 95% Low exchange capacity Droughty Large stones content Depth to bedrock Dusty Gretor 5% Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content Dusty
82C	Manlius channery silt loam, 8 to 15 percent slopes	Somewhat limited	Manlius 95% Low exchange capacity Slope Droughty Large stones content Depth to bedrock Gretor 5% Depth to saturated zone Depth to bedrock Slope Low exchange capacity Large stones content
82D	Manlius channery silt loam, 15 to 25 percent slopes	Very limited	Manlius 95% Slope Low exchange capacity Droughty Large stones content Depth to bedrock Arnot, very stony 4% Slope Depth to bedrock Droughty Large stones content Gravel content Gretor 1% Slope Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content

Lawns, Landscaping, and Golf Fairways

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
91A	Palms muck, 0 to 3 percent slopes	Very limited	Palms, undrained 55% Ponding Organic matter content Depth to saturated zone Dusty Palms, drained 40% Organic matter content Depth to saturated zone Dusty Canandaigua 5% Ponding Depth to saturated zone Dusty
92A	Carlisle muck, 0 to 3 percent slopes	Very limited	Carlisle, undrained 45% Ponding Organic matter content Depth to saturated zone Dusty Carlisle, drained 40% Organic matter content Depth to saturated zone Dusty Palms, undrained 10% Ponding Organic matter content Depth to saturated zone Dusty Canandaigua 5% Ponding Depth to saturated zone Dusty
93A	Edwards muck, 0 to 3 percent slopes	Very limited	Edwards, undrained 50% Ponding Organic matter content Depth to saturated zone Carbonate content Dusty Edwards, drained 35% Organic matter content Depth to saturated zone Carbonate content Dusty Martisco, undrained 10% Ponding Organic matter content Depth to saturated zone Carbonate content Dusty Canandaigua 5% Ponding Depth to saturated zone 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
94A	Martisco muck, 0 to 3 percent slopes	Very limited	Martisco, undrained 55% Ponding Organic matter content Depth to saturated zone Carbonate content Dusty Martisco, drained 35% Organic matter content Depth to saturated zone Carbonate content Dusty Canandaigua 5% Ponding Depth to saturated zone Dusty Palms, drained 5% Organic matter content Depth to saturated zone Dusty
95A	Sapristis, 0 to 3 percent slopes, inundated	Very limited	Sapristis, inundated 85% Ponding Organic matter content Depth to saturated zone Dusty Palms, undrained 5% Ponding Organic matter content Depth to saturated zone Dusty Fluvaquents, frequently flooded 5% Flooding Depth to saturated zone Low exchange capacity Gravel content Carlisle, undrained 5% Ponding Organic matter content Depth to saturated zone Dusty
101A	Honeoye loam, 0 to 3 percent slopes	Somewhat limited	Honeoye 85% Low exchange capacity Dusty Lima 5% Low exchange capacity Depth to saturated zone Dusty Lansing 4% Low exchange capacity Dusty Wassaic 2% Low exchange capacity Depth to bedrock Dusty

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101B	Honeoye loam, 3 to 8 percent slopes	Somewhat limited	Honeoye 85% Low exchange capacity Dusty Lima 5% Low exchange capacity Depth to saturated zone Dusty Lansing 4% Low exchange capacity Dusty Wassaic 2% Low exchange capacity Depth to bedrock Dusty
101C	Honeoye loam, 8 to 15 percent slopes	Somewhat limited	Honeoye 85% Slope Low exchange capacity Dusty Lima 5% Slope Low exchange capacity Depth to saturated zone Dusty Lansing 4% Slope Low exchange capacity Dusty Wassaic 2% Slope Low exchange capacity Depth to bedrock Dusty
101D	Honeoye loam, 15 to 25 percent slopes	Very limited	Honeoye 85% Slope Low exchange capacity Dusty Lima 5% Slope Low exchange capacity Depth to saturated zone Dusty Lansing 4% Slope Low exchange capacity Dusty Kendaia 4% Depth to saturated zone Slope Low exchange capacity Dusty Wassaic 2% Slope Low exchange capacity Depth to bedrock 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
101E	Honeoye loam, 25 to 35 percent slopes	Very limited	Honeoye 85% Slope Low exchange capacity Dusty Lima 5% Slope Low exchange capacity Depth to saturated zone Dusty Kendaia 4% Depth to saturated zone Slope Low exchange capacity Dusty Lansing 4% Slope Low exchange capacity Dusty Wassaic 2% Slope Low exchange capacity Depth to bedrock Dusty
104A	Honeoye loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Low exchange capacity Dusty Lima 5% Low exchange capacity Depth to saturated zone Dusty Lansing 4% Low exchange capacity Dusty Wassaic 2% Low exchange capacity Depth to bedrock Dusty
104B	Honeoye loam, 3 to 8 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Low exchange capacity Dusty Lima 5% Low exchange capacity Depth to saturated zone Dusty Lansing 4% Low exchange capacity Dusty Wassaic 2% Low exchange capacity Depth to bedrock 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
104C	Honeoye loam, 8 to 15 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Slope Low exchange capacity Dusty Lima 5% Slope Low exchange capacity Depth to saturated zone Dusty Lansing 4% Slope Low exchange capacity Dusty Wassaic 2% Slope Low exchange capacity Depth to bedrock Dusty
106B	Danley-Lansing complex, 3 to 8 percent slopes	Somewhat limited	Danley 50% Depth to saturated zone Dusty Lansing 45% Low exchange capacity Dusty Conesus 2% Low exchange capacity Depth to saturated zone Dusty Palatine 1% Low exchange capacity Dusty Depth to bedrock
107B	Conesus-Lansing complex, 3 to 8 percent slopes	Somewhat limited	Conesus 50% Low exchange capacity Depth to saturated zone Dusty Lansing 45% Low exchange capacity Dusty Danley 1% Depth to saturated zone Dusty Palatine 1% Low exchange capacity Dusty Depth to bedrock

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
108C	Lansing loam, 8 to 15 percent slopes	Somewhat limited	Lansing 85% Low exchange capacity Slope Dusty Conesus 8% Low exchange capacity Depth to saturated zone Slope Dusty Danley 1% Depth to saturated zone Slope Dusty Wassaic 1% Low exchange capacity Depth to bedrock Slope Dusty
108D	Lansing loam, 15 to 25 percent slopes	Very limited	Lansing 85% Slope Low exchange capacity Dusty Conesus 9% Slope Low exchange capacity Depth to saturated zone Dusty Wassaic 3% Slope Low exchange capacity Depth to bedrock Dusty Kendaia 2% Depth to saturated zone Low exchange capacity Slope Dusty Appleton 1% Depth to saturated zone Low exchange capacity Slope Dusty
108E	Lansing loam, 25 to 35 percent slopes	Very limited	Lansing 85% Slope Low exchange capacity Dusty Cazenovia 10% Slope Depth to saturated zone Low exchange capacity Dusty Aurora 5% Slope Depth to saturated zone Low exchange capacity Large stones content 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
112B	Ontario fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Low exchange capacity Dusty Honeoye 5% Low exchange capacity Dusty Hilton 5% Low exchange capacity Depth to saturated zone Dusty Cazenovia 3% Depth to saturated zone Dusty
112C	Ontario fine sandy loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Low exchange capacity Dusty Honeoye 5% Slope Low exchange capacity Dusty Hilton 5% Slope Low exchange capacity Depth to saturated zone Dusty Cazenovia 3% Slope Depth to saturated zone Dusty
112D	Ontario fine sandy loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Low exchange capacity Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Honeoye 5% Slope Low exchange capacity Dusty Appleton 2% Depth to saturated zone Slope Low exchange capacity 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
112E	Ontario fine sandy loam, 25 to 35 percent slopes	Very limited	Ontario 85% Slope Low exchange capacity Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Honeoye 5% Slope Low exchange capacity Dusty Appleton 2% Depth to saturated zone Slope Low exchange capacity Dusty
114B	Ontario gravelly loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Low exchange capacity Dusty Hilton 5% Low exchange capacity Depth to saturated zone Dusty Honeoye 5% Low exchange capacity Dusty Cazenovia 3% Depth to saturated zone Dusty
114C	Ontario gravelly loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Low exchange capacity Dusty Hilton 5% Slope Low exchange capacity Depth to saturated zone Dusty Honeoye 5% Slope Low exchange capacity Dusty Cazenovia 3% Slope Depth to saturated zone Dusty
114D	Ontario gravelly loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Low exchange capacity Dusty Honeoye 5% Slope Low exchange capacity Dusty Appleton 2% Depth to saturated zone Slope Low exchange capacity 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
116B	Ontario loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Low exchange capacity Dusty Honeoye 5% Low exchange capacity Dusty Hilton 5% Low exchange capacity Depth to saturated zone Dusty Cazenovia 3% Depth to saturated zone Dusty
116C	Ontario loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Low exchange capacity Dusty Honeoye 5% Slope Low exchange capacity Dusty Hilton 5% Slope Low exchange capacity Depth to saturated zone Dusty Cazenovia 3% Slope Depth to saturated zone Dusty
116D	Ontario loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Low exchange capacity Dusty Cazenovia 5% Slope Depth to saturated zone Dusty Honeoye 5% Slope Low exchange capacity Dusty Appleton 2% Depth to saturated zone Slope Low exchange capacity 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
118F	Ontario, Honeoye, and Lansing soils, 35 to 55 percent slopes	Very limited	Ontario 40% Slope Low exchange capacity Dusty Honeoye 35% Slope Low exchange capacity Dusty Lansing 20% Slope Low exchange capacity Dusty Aurora 5% Slope Depth to saturated zone Low exchange capacity Large stones content Dusty
120E	Palmyra and Howard soils, 25 to 45 percent slopes	Very limited	Palmyra 55% Slope Large stones content Dusty Howard 40% Slope Gravel content Low exchange capacity Dusty Colonie 5% Slope Low exchange capacity Droughty
122A	Palmyra cobbly loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 95% Low exchange capacity Large stones content Dusty Honeoye, lower clay surface 5% Low exchange capacity Dusty
122B	Palmyra cobbly loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 95% Low exchange capacity Large stones content Dusty Honeoye, lower clay surface 5% Low exchange capacity Dusty
124A	Palmyra fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 90% Low exchange capacity Dusty Howard 10% Gravel content Low exchange capacity Dusty
124B	Palmyra fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 90% Low exchange capacity Dusty Howard 10% Gravel content Low exchange capacity Dusty

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
126A	Palmyra gravelly loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 95% Large stones content Dusty Arkport 5% Low exchange capacity
126B	Palmyra gravelly loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 95% Large stones content Dusty Arkport 5% Low exchange capacity
126C	Palmyra gravelly loam, 8 to 15 percent slopes	Somewhat limited	Palmyra 90% Slope Large stones content Dusty Arkport 10% Low exchange capacity Slope
126D	Palmyra gravelly loam, 15 to 25 percent slopes	Very limited	Palmyra 90% Slope Large stones content Dusty Arkport 10% Slope Low exchange capacity
128A	Palmyra gravelly sandy loam, 0 to 3 percent slopes	Somewhat limited	Palmyra 90% Low exchange capacity Gravel content Droughty Dusty Arkport 10% Low exchange capacity
128B	Palmyra gravelly sandy loam, 3 to 8 percent slopes	Somewhat limited	Palmyra 90% Low exchange capacity Gravel content Droughty Dusty Arkport 10% Low exchange capacity
128C	Palmyra gravelly sandy loam, 8 to 15 percent slopes	Somewhat limited	Palmyra 90% Slope Low exchange capacity Gravel content Droughty Dusty Arkport 10% Low exchange capacity Slope
130A	Farmington loam, 0 to 3 percent slopes	Very limited	Farmington 90% Depth to bedrock Low exchange capacity Droughty Dusty Galoo 5% Depth to bedrock Droughty Low exchange capacity Large stones content Dusty

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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 bedrock Low exchange capacity Droughty Dusty Galoo 5% Depth to bedrock Droughty Low exchange capacity Large stones content Dusty
132A	Galoo loam, 0 to 3 percent slopes, rocky	Very limited	Galoo 95% Depth to bedrock Droughty Low exchange capacity Large stones content Dusty
132B	Galoo loam, 3 to 8 percent slopes, rocky	Very limited	Galoo 95% Depth to bedrock Droughty Low exchange capacity Large stones content Dusty
134A	Camillus silt loam, 0 to 3 percent slopes	Somewhat limited	Camillus 95% Low exchange capacity Depth to bedrock Dusty Angola 5% Depth to saturated zone Depth to bedrock Dusty Droughty
134B	Camillus silt loam, 3 to 8 percent slopes	Somewhat limited	Camillus 95% Low exchange capacity Depth to bedrock Dusty Angola 5% Depth to saturated zone Depth to bedrock Dusty Droughty
151C	Willdin-Norchip complex, 3 to 15 percent slopes	Very limited	Willdin 60% Low exchange capacity Depth to saturated zone Large stones content Droughty Dusty Norchip 38% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Palms, undrained 2% Ponding Organic matter content Depth to saturated zone 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
152B	Valois gravelly loam, 3 to 8 percent slopes	Somewhat limited	Valois 85% Low exchange capacity Dusty Gravel content Cadosia 5% Large stones content Low exchange capacity Gravel content Dusty
152C	Valois gravelly loam, 8 to 15 percent slopes	Somewhat limited	Valois 85% Low exchange capacity Slope Dusty Gravel content Cadosia 5% Large stones content Low exchange capacity Slope Gravel content Dusty
152D	Valois gravelly loam, 15 to 25 percent slopes	Very limited	Valois 85% Slope Low exchange capacity Dusty Gravel content Cadosia 6% Slope Large stones content Low exchange capacity Gravel content Dusty Mardin 6% Slope Low exchange capacity Depth to saturated zone Large stones content Droughty Volusia 3% Depth to saturated zone Slope Low exchange capacity Droughty Large stones content

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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 Low exchange capacity Dusty Gravel content Cadosia 6% Slope Large stones content Low exchange capacity Gravel content Dusty Mardin 6% Slope Low exchange capacity Depth to saturated zone Large stones content Droughty Towerville, extremely stony 3% Slope Large stones content Depth to bedrock Low exchange capacity Depth to saturated zone
153B	Valois gravelly loam, cool, 3 to 8 percent slopes	Somewhat limited	Valois, cool 85% Low exchange capacity Gravel content Dusty Rockrift 5% Low exchange capacity Large stones content Dusty Willdin 5% Low exchange capacity Large stones content Depth to saturated zone Gravel content Droughty
153C	Valois gravelly loam, cool, 8 to 15 percent slopes	Somewhat limited	Valois, cool 85% Low exchange capacity Slope Gravel content Dusty Rockrift 5% Low exchange capacity Slope Large stones content Dusty Willdin 5% Low exchange capacity Large stones content Depth to saturated zone Slope Gravel content

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
153D	Valois gravelly loam, cool, 15 to 25 percent slopes	Very limited	Valois, cool 85% Slope Low exchange capacity Gravel content Dusty Rockrift 6% Slope Low exchange capacity Large stones content Dusty Willdin 6% Slope Low exchange capacity Large stones content Depth to saturated zone Gravel content Ontusia 3% Depth to saturated zone Slope Low exchange capacity Droughty Large stones content
153E	Valois gravelly loam, cool, 25 to 35 percent slopes	Very limited	Valois, cool 85% Slope Low exchange capacity Gravel content Dusty Rockrift 6% Slope Low exchange capacity Large stones content Dusty Willdin 6% Slope Low exchange capacity Large stones content Depth to saturated zone Gravel content Ischua 3% Slope Low exchange capacity Depth to bedrock Large stones content Depth to saturated zone

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Tie-break Rule: Higher

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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	Very limited	Willdin 85% Low exchange capacity Depth to saturated zone Large stones content Droughty Dusty Lewbath 5% Low exchange capacity Slope Large stones content Depth to saturated zone Dusty Middlebrook 5% Low exchange capacity Depth to saturated zone Depth to bedrock Droughty Dusty Ontusia 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty
162C	Willdin channery silt loam, 8 to 15 percent slopes	Very limited	Willdin 85% Low exchange capacity Depth to saturated zone Slope Large stones content Droughty Ontusia 6% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Lewbath 6% Slope Low exchange capacity Large stones content Depth to saturated zone Dusty Middlebrook 3% Low exchange capacity Depth to saturated zone Slope Depth to bedrock Droughty

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
162D	Willdin channery silt loam, 15 to 25 percent slopes	Very limited	Willdin 80% Slope Low exchange capacity Depth to saturated zone Large stones content Droughty Lewbath 10% Slope Low exchange capacity Large stones content Depth to saturated zone Dusty Mongaup 5% Slope Low exchange capacity Large stones content Depth to bedrock Droughty Ontusia 5% Depth to saturated zone Slope Low exchange capacity Droughty Large stones content
168A	Ontusia channery silt loam, 0 to 3 percent slopes	Very limited	Ontusia 88% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Willdin 5% Low exchange capacity Depth to saturated zone Large stones content Droughty Dusty Norchip 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty
168B	Ontusia channery silt loam, 3 to 8 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Norchip 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Willdin 5% Low exchange capacity Depth to saturated zone Slope Large stones content Droughty

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Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
168C	Ontusia channery silt loam, 8 to 15 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Slope Low exchange capacity Droughty Large stones content Norchip 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Willdin 5% Slope Low exchange capacity Depth to saturated zone Large stones content Droughty
168D	Ontusia channery silt loam, 15 to 25 percent slopes	Very limited	Ontusia 90% Slope Depth to saturated zone Low exchange capacity Droughty Large stones content Willdin 7% Slope Low exchange capacity Depth to saturated zone Large stones content Droughty Norchip 3% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty

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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	Somewhat limited	<p>Lordstown, very stony 40%</p> <ul style="list-style-type: none"> Slope Gravel content Depth to bedrock Large stones content Dusty <p>Towerville, very stony 20%</p> <ul style="list-style-type: none"> Large stones content Depth to bedrock Low exchange capacity Depth to saturated zone Slope <p>Manlius, very stony 20%</p> <ul style="list-style-type: none"> Droughty Large stones content Low exchange capacity Slope Depth to bedrock <p>Cadosia, very stony 10%</p> <ul style="list-style-type: none"> Large stones content Slope Gravel content Dusty <p>Mardin, very stony 5%</p> <ul style="list-style-type: none"> Depth to saturated zone Low exchange capacity Large stones content Slope Droughty
171D	Lordstown-Manlius-Towerville complex, 15 to 25 percent slopes, very stony	Very limited	<p>Lordstown, very stony 40%</p> <ul style="list-style-type: none"> Slope Gravel content Depth to bedrock Large stones content Dusty <p>Manlius, very stony 20%</p> <ul style="list-style-type: none"> Slope Droughty Large stones content Low exchange capacity Depth to bedrock <p>Towerville, very stony 20%</p> <ul style="list-style-type: none"> Slope Large stones content Depth to bedrock Low exchange capacity Depth to saturated zone <p>Cadosia, very stony 10%</p> <ul style="list-style-type: none"> Slope Large stones content Gravel content Dusty <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> Slope Depth to bedrock Droughty Large stones content Gravel content

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Tie-break Rule: Higher

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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"> Slope Gravel content Depth to bedrock Large stones content Dusty <p>Towerville, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Large stones content Depth to bedrock Low exchange capacity Depth to saturated zone <p>Manlius, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Droughty Large stones content Low exchange capacity Depth to bedrock <p>Cadosia, extremely stony 10%</p> <ul style="list-style-type: none"> Slope Large stones content Gravel content Dusty <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> Slope Depth to bedrock Droughty Large stones content Gravel content <p>Mardin, extremely stony 5%</p> <ul style="list-style-type: none"> Slope Depth to saturated zone Large stones content Droughty 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
171F	Lordstown-Manlius-Towerville complex, 35 to 80 percent slopes, extremely stony	Very limited	Lordstown, extremely stony 40% Slope Gravel content Depth to bedrock Large stones content Dusty Towerville, extremely stony 20% Slope Large stones content Depth to bedrock Low exchange capacity Depth to saturated zone Manlius, extremely stony 20% Slope Droughty Large stones content Low exchange capacity Depth to bedrock Arnot, extremely stony 10% Slope Depth to bedrock Droughty Large stones content Gravel content Cadosia, extremely stony 10% Slope Large stones content Gravel content Dusty
177A	Norchip silt loam, 0 to 3 percent slopes	Very limited	Norchip 85% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Norchip, very poorly drained 10% Ponding Depth to saturated zone Droughty Large stones content Dusty Ontusia 5% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty

Lawns, Landscaping, and Golf Fairways

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
177B	Norchip silt loam, 3 to 8 percent slopes	Very limited	Norchip 85% Depth to saturated zone Low exchange capacity Droughty Large stones content Dusty Norchip, very poorly drained 10% Ponding Depth to saturated zone Droughty Large stones content Dusty Ontusia 5% Depth to saturated zone Slope Low exchange capacity Droughty Large stones content
181B	Mongaup-Ischua complex, 3 to 8 percent slopes	Somewhat limited	Mongaup 45% Depth to bedrock Low exchange capacity Large stones content Droughty Dusty Rockrift 10% Low exchange capacity Large stones content Dusty Willdin 3% Low exchange capacity Large stones content Depth to saturated zone Gravel content Droughty Gretor 2% Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content 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
181C	Mongaup-Ischua complex, 8 to 15 percent slopes	Somewhat limited	Mongaup 45% Depth to bedrock Low exchange capacity Slope Large stones content Droughty Rockrift 10% Low exchange capacity Slope Large stones content Dusty Willdin 3% Low exchange capacity Large stones content Depth to saturated zone Slope Gravel content Gretor 2% Depth to saturated zone Depth to bedrock Slope Low exchange capacity Large stones content
181D	Mongaup-Ischua complex, 15 to 25 percent slopes, very stony	Very limited	Mongaup, very stony 45% Slope Depth to bedrock Low exchange capacity Large stones content Droughty Ischua, very stony 40% Slope Low exchange capacity Depth to bedrock Large stones content Depth to saturated zone Rockrift 10% Slope Low exchange capacity Large stones content Dusty Willdin 3% Slope Low exchange capacity Large stones content Depth to saturated zone Gravel content Gretor 2% Slope Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content

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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
181E	Mongaup-Ischua complex, 25 to 35 percent slopes, extremely stony	Very limited	Mongaup, extremely stony 45% Slope Depth to bedrock Low exchange capacity Large stones content Droughty Ischua, extremely stony 40% Slope Low exchange capacity Depth to bedrock Large stones content Depth to saturated zone Rockrift 10% Slope Low exchange capacity Large stones content Dusty Willdin 3% Slope Low exchange capacity Large stones content Depth to saturated zone Gravel content Greter 2% Slope Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content
182B	Mongaup channery loam, 3 to 8 percent slopes	Somewhat limited	Mongaup 75% Depth to bedrock Low exchange capacity Droughty Large stones content Dusty Rockrift 10% Low exchange capacity Large stones content Dusty Willdin 8% Low exchange capacity Large stones content Depth to saturated zone Gravel content Droughty Greter 2% Depth to saturated zone Depth to bedrock Low exchange capacity Large stones content 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
182C	Mongaup channery loam, 8 to 15 percent slopes	Somewhat limited	Mongaup 75% Depth to bedrock Low exchange capacity Slope Droughty Large stones content Rockrift 10% Low exchange capacity Slope Large stones content Dusty Willdin 8% Low exchange capacity Large stones content Depth to saturated zone Slope Gravel content Gretor 2% Depth to saturated zone Depth to bedrock Slope Low exchange capacity Large stones content
201A	Lima loam, 0 to 3 percent slopes	Somewhat limited	Lima 85% Low exchange capacity Depth to saturated zone Dusty Honeoye 5% Low exchange capacity Dusty Cazenovia 2% Depth to saturated zone Low exchange capacity Dusty
201B	Lima loam, 3 to 8 percent slopes	Somewhat limited	Lima 85% Low exchange capacity Depth to saturated zone Dusty Honeoye 6% Low exchange capacity Dusty Cazenovia 2% Depth to saturated zone Low exchange capacity Dusty
201C	Lima loam, 8 to 15 percent slopes	Somewhat limited	Lima 85% Low exchange capacity Depth to saturated zone Slope Dusty Honeoye 7% Low exchange capacity Slope Dusty Cazenovia 2% Depth to saturated zone Low exchange capacity Slope 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
204A	Lima loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Lima 85% Low exchange capacity Depth to saturated zone Dusty Honeoye 5% Low exchange capacity Dusty Cazenovia 2% Depth to saturated zone Low exchange capacity Dusty
204B	Lima loam, 3 to 8 percent slopes, lower clay surface	Somewhat limited	Lima 85% Low exchange capacity Depth to saturated zone Dusty Honeoye 6% Low exchange capacity Dusty Cazenovia 2% Depth to saturated zone Low exchange capacity Dusty
210A	Phelps gravelly silt loam, 0 to 3 percent slopes	Somewhat limited	Phelps 85% Depth to saturated zone Dusty Gravel content Galen 10% Low exchange capacity Depth to saturated zone Dusty Homer 5% Depth to saturated zone Dusty
210B	Phelps gravelly silt loam, 3 to 8 percent slopes	Somewhat limited	Phelps 85% Depth to saturated zone Dusty Gravel content Galen 10% Low exchange capacity Depth to saturated zone Dusty Homer 5% Depth to saturated zone Dusty
212A	Nuhi silt loam, 0 to 3 percent slopes	Somewhat limited	Nuhi 85% Depth to saturated zone Depth to bedrock 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
240B	Aurora-Angola silt loams, 3 to 8 percent slopes	Somewhat limited	Aurora 60% Depth to saturated zone Low exchange capacity Large stones content Dusty Depth to bedrock Angola 30% Depth to saturated zone Depth to bedrock Dusty Droughty Danley 5% Depth to saturated zone Dusty Darien 5% Depth to saturated zone Low exchange capacity Dusty
240C	Aurora-Angola silt loams, 8 to 15 percent slopes	Somewhat limited	Aurora 60% Slope Depth to saturated zone Low exchange capacity Large stones content Dusty Angola 30% Depth to saturated zone Depth to bedrock Slope Dusty Droughty Darien 5% Depth to saturated zone Low exchange capacity Slope Dusty Danley 5% Slope Depth to saturated zone Dusty
240D	Aurora-Angola silt loams, 15 to 25 percent slopes	Very limited	Aurora 60% Slope Depth to saturated zone Low exchange capacity Large stones content Dusty Angola 30% Slope Depth to saturated zone Depth to bedrock Dusty Droughty Darien 5% Slope Depth to saturated zone Low exchange capacity Dusty Danley 5% Slope Depth to saturated zone 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
241B	Aurora silt loam, 3 to 8 percent slopes	Somewhat limited	Aurora 85% Depth to saturated zone Low exchange capacity Large stones content Dusty Depth to bedrock Angola 10% Depth to saturated zone Depth to bedrock Dusty Droughty Danley 5% Depth to saturated zone Dusty
241C	Aurora silt loam, 8 to 15 percent slopes	Somewhat limited	Aurora 85% Slope Depth to saturated zone Low exchange capacity Large stones content Dusty Angola 8% Depth to saturated zone Depth to bedrock Slope Dusty Droughty Danley 7% Slope Depth to saturated zone Dusty
241D	Aurora silt loam, 15 to 25 percent slopes	Very limited	Aurora 85% Slope Depth to saturated zone Low exchange capacity Large stones content Dusty Danley 10% Slope Depth to saturated zone Dusty Angola 5% Slope Depth to saturated zone Depth to bedrock Dusty Droughty
255B	Cazenovia silt loam, 3 to 8 percent slopes	Somewhat limited	Cazenovia 85% Depth to saturated zone Dusty Ovid 10% Depth to saturated zone Dusty Cayuga 5% Depth to saturated zone 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
255C	Cazenovia silt loam, 8 to 15 percent slopes	Somewhat limited	Cazenovia 85% Slope Depth to saturated zone Dusty Cayuga 8% Slope Depth to saturated zone Dusty Ovid 7% Depth to saturated zone Slope Dusty
255D	Cazenovia silt loam, 15 to 25 percent slopes	Very limited	Cazenovia 85% Slope Depth to saturated zone Dusty Cayuga 10% Slope Depth to saturated zone Dusty
260B	Cayuga silt loam, 3 to 8 percent slopes	Somewhat limited	Cayuga 85% Depth to saturated zone Dusty Schoharie 10% Depth to saturated zone Dusty Odessa 5% Depth to saturated zone Dusty
260C	Cayuga silt loam, 8 to 15 percent slopes	Somewhat limited	Cayuga 85% Depth to saturated zone Slope Dusty Schoharie 10% Depth to saturated zone Slope Dusty Odessa 5% Depth to saturated zone Dusty
260D	Cayuga silt loam, 15 to 25 percent slopes	Very limited	Cayuga 85% Slope Depth to saturated zone Dusty Lansing 10% Slope Low exchange capacity Dusty Schoharie 5% Slope Depth to saturated zone 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
304A	Kendaia loam, 0 to 3 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Low exchange capacity Dusty Lyons 5% Depth to saturated zone Low exchange capacity Dusty Churchville 2% Depth to saturated zone Dusty
304B	Kendaia loam, 3 to 8 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Low exchange capacity Dusty Lyons 4% Depth to saturated zone Low exchange capacity Dusty Churchville 2% Depth to saturated zone Dusty
342A	Angola silt loam, 0 to 3 percent slopes	Somewhat limited	Angola 90% Depth to saturated zone Depth to bedrock Dusty Droughty Darrien 5% Depth to saturated zone Low exchange capacity Dusty
356A	Ovid silt loam, 0 to 3 percent slopes	Somewhat limited	Ovid 85% Depth to saturated zone Dusty Odessa 10% Depth to saturated zone Dusty
356B	Ovid silt loam, 3 to 8 percent slopes	Somewhat limited	Ovid 85% Depth to saturated zone Dusty Odessa 10% Depth to saturated zone Dusty
357B	Ovid silty clay loam, 3 to 8 percent slopes	Somewhat limited	Ovid 85% Depth to saturated zone Dusty Odessa 10% Depth to saturated zone Dusty
357C	Ovid silty clay loam, 8 to 15 percent slopes	Somewhat limited	Ovid 85% Depth to saturated zone Slope Dusty Odessa 10% Depth to saturated zone 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
400A	Udorthents, loamy, 0 to 3 percent slopes	Somewhat limited	Udorthents, loamy 80% Droughty Low exchange capacity Gravel content Large stones content Dusty Howard 5% Gravel content Low exchange capacity Dusty Ontario 5% Low exchange capacity Dusty Palmyra 5% Low exchange capacity Dusty Lima 5% Low exchange capacity Depth to saturated zone Dusty
401D	Udorthents, refuse substratum. 0 to 25 percent slopes	Not rated	Udorthents, refuse substratum 90%
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%

Lawns, Landscaping, and Golf Fairways

Rating Options

Attribute Name: Lawns, Landscaping, and Golf Fairways

ENG - Engineering

This interpretation rates soils for their use in establishing and maintaining turf for lawns and golf fairways and ornamental trees and shrubs for residential or commercial landscaping. Lawns and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required.

The ratings are based on the use of soil material at the site, which may have been altered by some land smoothing. Irrigation may or may not be needed and is not a criterion in rating. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. Soils that are subject to flooding are limited by the duration and intensity of flooding and the season when flooding occurs. In planning for lawns, landscaping, or golf fairways, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

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

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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.