

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 13 - 09/24/2016

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
1A	Fluvaquents-Udifluvents complex, 0 to 3 percent slopes, frequently flooded	Very limited	Fluvaquents, frequently flooded 45% Depth to saturated zone Rapid water movement Seepage Frequent or very frequent flooding Low water holding capacity Udifluvents, frequently flooded 40% Rapid water movement Low water holding capacity Seepage Frequent or very frequent flooding Wayland 10% Depth to saturated zone Frequent or very frequent flooding Rapid water movement
2A	Geneseo silty clay loam, 0 to 3 percent slopes	Somewhat limited	Geneseo 90% Occasional flooding Rapid water movement Naples Creek 10% Rapid water movement Occasional flooding
3A	Hemlock silty clay loam, 0 to 3 percent slopes	Somewhat limited	Hemlock 90% Occasional flooding Rapid water movement Naples Creek 10% Rapid water movement Occasional flooding
4A	Naples Creek silty clay loam, 0 to 3 percent slopes	Somewhat limited	Naples Creek 90% Rapid water movement Occasional flooding Hemlock 5% Occasional flooding Rapid water movement
5A	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Very limited	Wayland 60% Depth to saturated zone Rapid water movement Frequent or very frequent flooding Wayland, very poorly drained 30% Depth to saturated zone Ponding Rapid water movement Frequent or very frequent flooding
12D	Rockrft channery silt loam, 15 to 25 percent slopes	Very limited	Rockrft 85% Slope Water Erosion Rapid water movement Content of large stones Too acid Mongaup, very stony 10% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement Willdin 5% Slope Water Erosion Low water holding capacity Rapid water movement
13F	Rock outcrop-Arnot complex, 25 to 70 percent slopes	Not rated	Rock outcrop 55%

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14D	Cadosia channery silt loam, 15 to 25 percent slopes	Very limited	Cadosia 85% Slope Water Erosion Rapid water movement Too acid Content of large stones Lordstown, very stony 10% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Water Erosion Mardin 5% Slope Water Erosion Low water holding capacity Rapid water movement
15A	Guyanoga channery silt loam, fan, 0 to 3 percent slopes	Somewhat limited	Guyanoga, fan 90% Seepage Rapid water movement Low water holding capacity Slope Content of large stones Hemlock 5% Occasional flooding Rapid water movement
15B	Guyanoga channery silt loam, fan, 3 to 8 percent slopes	Very limited	Guyanoga, fan 90% Slope Seepage Rapid water movement Low water holding capacity Content of large stones Chenango, fan 5% Slope Rapid water movement Seepage Low water holding capacity
16A	Almond channery silt loam, 0 to 3 percent slopes	Somewhat limited	Almond 80% Rapid water movement Too acid Ontusia 10% Low water holding capacity Rapid water movement Gretor 5% Depth to hard bedrock Low water holding capacity Rapid water movement

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16B	Almond channery silt loam, 3 to 8 percent slopes	Very limited	Almond 80% Slope Rapid water movement Too acid Ontusia 10% Slope Low water holding capacity Rapid water movement Norchip 5% Depth to saturated zone Slope Low water holding capacity Water Erosion Gretor 5% Slope Depth to hard bedrock Low water holding capacity Rapid water movement Water Erosion
16C	Almond channery silt loam, 8 to 15 percent slopes	Very limited	Almond 80% Slope Rapid water movement Water Erosion Too acid Ontusia 10% Slope Low water holding capacity Rapid water movement Water Erosion Gretor 5% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement Norchip 5% Depth to saturated zone Slope Low water holding capacity Water Erosion
18A	Homer fine sandy loam, 0 to 3 percent slopes	Very limited	Homer 90% Seepage Rapid water movement Low water holding capacity Fine-loamy, mixed, active, mesic Typic Argiaquolls 5% Depth to saturated zone Rapid water movement Phelps 5% Seepage Rapid water movement Low water holding capacity

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19A	Fine-loamy, mixed, active, mesic, Typic Argiaquolls, 0 to 3 percent slopes	Very limited	Fine-loamy, mixed, active, mesic Typic Argiaquolls 80% Depth to saturated zone Rapid water movement Ponding Homer 8% Seepage Rapid water movement Low water holding capacity Atherton 7% Depth to saturated zone Rapid water movement Seepage Palms, undrained 5% Depth to saturated zone Rapid water movement Ponding Seepage
20A	Atherton and Fine-loamy, mixed, active, mesic, Typic Argiaquolls, 0 to 3 percent slopes	Very limited	Atherton 40% Depth to saturated zone Rapid water movement Seepage Fine-loamy, mixed, active, mesic Typic Argiaquolls 40% Depth to saturated zone Rapid water movement Ponding Homer 8% Seepage Rapid water movement Low water holding capacity Canandaigua 7% Depth to saturated zone Rapid water movement Castile 5% Rapid water movement Seepage Low water holding capacity
24A	Howard gravelly loam, 0 to 3 percent slopes	Very limited	Howard 80% Rapid water movement Seepage Slope Low water holding capacity Palmyra 10% Seepage Rapid water movement Slope Low water holding capacity Arkport 5% Rapid water movement Seepage Slope Phelps 5% Seepage Rapid water movement Slope Low water holding capacity

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24B	Howard gravelly loam, 3 to 8 percent slopes	Very limited	Howard 80% Slope Rapid water movement Seepage Low water holding capacity Palmyra 10% Slope Seepage Rapid water movement Low water holding capacity Arkport 5% Slope Rapid water movement Seepage Water Erosion Phelps 5% Slope Seepage Rapid water movement Low water holding capacity Water Erosion
24C	Howard gravelly loam, 8 to 15 percent slopes	Very limited	Howard 80% Slope Rapid water movement Seepage Low water holding capacity Palmyra 10% Slope Seepage Rapid water movement Low water holding capacity Water Erosion Phelps 5% Slope Seepage Rapid water movement Low water holding capacity Water Erosion Arkport 5% Slope Rapid water movement Seepage Water Erosion

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24D	Howard soils, 15 to 25 percent slopes	Very limited	Howard 65% Slope Rapid water movement Seepage Low water holding capacity Water Erosion Palmyra 20% Slope Seepage Water Erosion Rapid water movement Low water holding capacity Arkport 13% Slope Rapid water movement Water Erosion Seepage Phelps 2% Slope Seepage Rapid water movement Low water holding capacity Water Erosion
25A	Chenango gravelly loam, 0 to 3 percent slopes	Very limited	Chenango 90% Rapid water movement Seepage Low water holding capacity Slope Castile 8% Rapid water movement Seepage Low water holding capacity Slope Valois 2% Seepage Rapid water movement Slope Low water holding capacity
25B	Chenango gravelly loam, 3 to 8 percent slopes	Very limited	Chenango 90% Slope Rapid water movement Seepage Low water holding capacity Castile 5% Slope Rapid water movement Seepage Low water holding capacity Valois 5% Slope Seepage Rapid water movement Low water holding capacity

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25C	Chenango gravelly loam, 8 to 15 percent slopes	Very limited	Chenango 90% Slope Rapid water movement Seepage Low water holding capacity Water Erosion Castile 5% Slope Rapid water movement Seepage Low water holding capacity Water Erosion Valois 5% Slope Seepage Rapid water movement Water Erosion Low water holding capacity
25D	Chenango gravelly loam, 15 to 25 percent slopes	Very limited	Chenango 90% Slope Rapid water movement Seepage Water Erosion Low water holding capacity Castile 8% Slope Rapid water movement Seepage Water Erosion Low water holding capacity Valois 2% Slope Seepage Water Erosion Rapid water movement Low water holding capacity
25E	Chenango gravelly loam, 25 to 35 percent slopes	Very limited	Chenango 90% Slope Rapid water movement Water Erosion Seepage Low water holding capacity Valois 10% Slope Water Erosion Seepage Rapid water movement Low water holding capacity

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26B	Chenango channery loam, fan, 3 to 8 percent slopes	Very limited	Chenango, fan 85% Slope Rapid water movement Seepage Low water holding capacity Guyanoga, fan 5% Slope Seepage Rapid water movement Low water holding capacity Content of large stones Castile 5% Slope Rapid water movement Seepage Low water holding capacity
27B	Castile gravelly silt loam, 3 to 8 percent slopes	Very limited	Castile 85% Slope Rapid water movement Seepage Low water holding capacity Homer 5% Seepage Slope Rapid water movement Low water holding capacity Chenango 5% Slope Rapid water movement Seepage Low water holding capacity Phelps 5% Slope Seepage Rapid water movement Low water holding capacity Water Erosion
31A	Collamer silt loam, 0 to 3 percent slopes	Somewhat limited	Collamer 85% Slope Rapid water movement Niagara 10% Slope Rapid water movement Schoharie 5% Slope
31B	Collamer silt loam, 3 to 8 percent slopes	Very limited	Collamer 85% Slope Water Erosion Rapid water movement Niagara 10% Slope Water Erosion Rapid water movement Schoharie 5% Slope Water Erosion

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31C	Collamer silt loam, 8 to 15 percent slopes	Very limited	Collamer 85% Slope Water Erosion Rapid water movement Niagara 10% Slope Water Erosion Rapid water movement Schoharie 5% Slope Water Erosion
31D	Collamer silt loam, 15 to 25 percent slopes	Very limited	Collamer 90% Slope Water Erosion Rapid water movement Niagara 5% Slope Water Erosion Rapid water movement Schoharie 5% Slope Water Erosion
32A	Dunkirk fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Dunkirk 90% Slope Rapid water movement Niagara 3% Slope Rapid water movement Schoharie 3% Slope
32B	Dunkirk fine sandy loam, 3 to 8 percent slopes	Very limited	Dunkirk 90% Slope Water Erosion Rapid water movement Arkport 4% Slope Rapid water movement Seepage Water Erosion Schoharie 3% Slope Water Erosion Niagara 3% Slope Water Erosion Rapid water movement
33A	Dunkirk silt loam, 0 to 3 percent slopes	Somewhat limited	Dunkirk 90% Rapid water movement Slope Niagara 3% Slope Rapid water movement Schoharie 3% Slope

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33B	Dunkirk silt loam, 3 to 8 percent slopes	Very limited	Dunkirk 90% Slope Water Erosion Rapid water movement Arkport 4% Slope Rapid water movement Seepage Water Erosion Schoharie 3% Slope Water Erosion Niagara 3% Slope Water Erosion Rapid water movement
33C	Dunkirk silt loam, 8 to 15 percent slopes	Very limited	Dunkirk 90% Slope Water Erosion Rapid water movement Arkport 4% Slope Rapid water movement Seepage Water Erosion Schoharie 3% Slope Water Erosion Niagara 3% Slope Water Erosion Rapid water movement
33D	Dunkirk silt loam, 15 to 25 percent slopes	Very limited	Dunkirk 90% Slope Water Erosion Rapid water movement Arkport 5% Slope Rapid water movement Water Erosion Seepage Schoharie 5% Slope Water Erosion
33E	Dunkirk silt loam, 25 to 35 percent slopes	Very limited	Dunkirk 90% Slope Water Erosion Rapid water movement Arkport 5% Slope Rapid water movement Water Erosion Seepage Schoharie 5% Slope Water Erosion

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34A	Lakemont silty clay loam, 0 to 3 percent slopes	Very limited	Lakemont 85% Depth to saturated zone Fonda 4% Depth to saturated zone Ponding Canandaigua 4% Depth to saturated zone Rapid water movement Barre 2% Depth to saturated zone
35A	Odessa silt loam, 0 to 3 percent slopes	Somewhat limited	Odessa 85% Slope Schoharie 5% Slope Rhinebeck 2% Slope
35B	Odessa silty clay loam, 3 to 8 percent slopes	Very limited	Odessa 85% Slope Water Erosion Schoharie 6% Slope Water Erosion Lakemont 4% Depth to saturated zone Churchville 3% Slope Low water holding capacity Water Erosion Rapid water movement Rhinebeck 2% Slope Water Erosion
36A	Schoharie silty clay loam, 0 to 3 percent slopes	Somewhat limited	Schoharie 90% Slope Dunkirk 5% Rapid water movement Slope
36B	Schoharie silty clay loam, 3 to 8 percent slopes	Very limited	Schoharie 90% Slope Water Erosion Dunkirk 5% Slope Water Erosion Rapid water movement Arkport 5% Slope Rapid water movement Seepage Water Erosion
36C	Schoharie silty clay loam, 8 to 15 percent slopes	Very limited	Schoharie 90% Slope Water Erosion Arkport 5% Slope Rapid water movement Seepage Water Erosion Dunkirk 5% Slope Water Erosion Rapid water movement

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36D	Schoharie silty clay loam, 15 to 25 percent slopes	Very limited	Schoharie 90% Slope Water Erosion Arkport 5% Slope Rapid water movement Water Erosion Seepage Dunkirk 5% Slope Water Erosion Rapid water movement
36E	Schoharie silty clay loam, 25 to 45 percent slopes	Very limited	Schoharie 90% Slope Water Erosion Arkport 5% Slope Rapid water movement Water Erosion Seepage Dunkirk 5% Slope Water Erosion Rapid water movement
37A	Schoharie silt loam, 0 to 3 percent slopes	Somewhat limited	Schoharie 90% Slope Dunkirk 5% Rapid water movement Slope Odessa 5% Slope
37B	Schoharie silt loam, 3 to 8 percent slopes	Very limited	Schoharie 90% Slope Water Erosion Odessa 5% Slope Water Erosion Dunkirk 5% Slope Water Erosion Rapid water movement
38A	Niagara silt loam, 0 to 3 percent slopes	Somewhat limited	Niagara 85% Slope Rapid water movement Collamer 5% Slope Rapid water movement Rhinebeck 5% Slope

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38B	Niagara silt loam, 3 to 8 percent slopes	Very limited	Niagara 85% Slope Water Erosion Rapid water movement Canandaigua 5% Depth to saturated zone Slope Water Erosion Rapid water movement Rhinebeck 5% Slope Water Erosion Collamer 5% Slope Water Erosion Rapid water movement
39A	Rhinebeck silty clay loam, 0 to 3 percent slopes	Somewhat limited	Rhinebeck 90% Slope Niagara 5% Slope Rapid water movement
41A	Aeric Epiaquepts, 0 to 3 percent slopes	Very limited	Aeric Epiaquepts 50% Rapid water movement Seepage Aeric Epiaquepts 45% Depth to saturated zone Rapid water movement Seepage Elnora 5% Rapid water movement Seepage Low water holding capacity
43A	Canandaigua silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Depth to saturated zone Rapid water movement Canandaigua 4% Depth to saturated zone Ponding Rapid water movement Lakemont 3% Depth to saturated zone
44A	Canandaigua mucky silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Depth to saturated zone Ponding Rapid water movement Canandaigua 5% Depth to saturated zone Rapid water movement Lakemont 3% Depth to saturated zone Palms, undrained 2% Depth to saturated zone Rapid water movement Ponding Seepage

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45A	Fonda mucky silt loam, 0 to 3 percent slopes	Very limited	Fonda 95% Depth to saturated zone Ponding Canandaigua 3% Depth to saturated zone Ponding Rapid water movement Palms, undrained 2% Depth to saturated zone Rapid water movement Ponding Seepage
46A	Galen fine sandy loam, 0 to 3 percent slopes	Very limited	Galen 90% Rapid water movement Slope Seepage Aeric Epiaquepts 5% Rapid water movement Seepage
46B	Galen fine sandy loam, 3 to 8 percent slopes	Very limited	Galen 90% Slope Rapid water movement Seepage Aeric Epiaquepts 5% Rapid water movement Seepage
48A	Arkport fine sandy loam, 0 to 3 percent slopes	Very limited	Arkport 95% Rapid water movement Seepage Slope Galen 2% Rapid water movement Seepage Slope
48B	Arkport fine sandy loam, 3 to 8 percent slopes	Very limited	Arkport 95% Slope Rapid water movement Seepage Dunkirk 3% Slope Rapid water movement Water Erosion Galen 2% Slope Rapid water movement Seepage
48C	Arkport fine sandy loam, 8 to 15 percent slopes	Very limited	Arkport 95% Slope Rapid water movement Seepage Water Erosion Dunkirk 3% Slope Water Erosion Rapid water movement Galen 2% Slope Rapid water movement Seepage Water Erosion

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48D	Arkport fine sandy loam, 15 to 25 percent slopes	Very limited	Arkport 90% Slope Rapid water movement Water Erosion Seepage Dunkirk 8% Slope Water Erosion Rapid water movement Palmyra 2% Slope Water Erosion Seepage Rapid water movement Low water holding capacity
49B	Arkport loamy fine sand, 3 to 8 percent slopes	Very limited	Arkport 95% Slope Rapid water movement Seepage Low water holding capacity Dunkirk 3% Slope Rapid water movement Water Erosion Galen 2% Slope Rapid water movement Seepage
49D	Arkport loamy fine sand, 15 to 25 percent slopes	Very limited	Arkport 95% Slope Rapid water movement Seepage Water Erosion Low water holding capacity Dunkirk 3% Slope Water Erosion Rapid water movement Palmyra 2% Slope Water Erosion Seepage Rapid water movement Low water holding capacity
49E	Arkport loamy fine sand, 25 to 35 percent slopes	Very limited	Arkport 90% Slope Rapid water movement Water Erosion Seepage Low water holding capacity Dunkirk 8% Slope Water Erosion Rapid water movement Palmyra 2% Slope Water Erosion Seepage Rapid water movement Low water holding capacity

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49F	Arkport loamy fine sand, 35 to 55 percent slopes	Very limited	Arkport 90% Slope Rapid water movement Water Erosion Seepage Low water holding capacity Dunkirk 8% Slope Water Erosion Rapid water movement Palmyra 2% Slope Water Erosion Seepage Rapid water movement Low water holding capacity
50B	Dunkirk-Arkport complex, 3 to 8 percent slopes	Very limited	Dunkirk 50% Slope Water Erosion Rapid water movement Arkport 45% Slope Rapid water movement Seepage Collamer 5% Slope Water Erosion Rapid water movement
50C	Dunkirk-Arkport complex, 8 to 15 percent slopes	Very limited	Dunkirk 60% Slope Water Erosion Rapid water movement Arkport 35% Slope Rapid water movement Seepage Water Erosion Collamer 5% Slope Water Erosion Rapid water movement
50D	Dunkirk-Arkport complex, 15 to 25 percent slopes	Very limited	Dunkirk 60% Slope Water Erosion Rapid water movement Arkport 35% Slope Rapid water movement Water Erosion Seepage Collamer 5% Slope Water Erosion Rapid water movement

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53A	Lamson fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Depth to saturated zone Rapid water movement Seepage Lamson 5% Depth to saturated zone Rapid water movement Ponding Low water holding capacity Seepage Canandaigua 3% Depth to saturated zone Rapid water movement Galen 2% Rapid water movement Seepage
54A	Lamson mucky fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Depth to saturated zone Rapid water movement Ponding Low water holding capacity Seepage Canandaigua 5% Depth to saturated zone Rapid water movement Lamson 5% Depth to saturated zone Rapid water movement Seepage
56A	Elnora loamy fine sand, 0 to 3 percent slopes	Very limited	Elnora 90% Rapid water movement Seepage Low water holding capacity Slope Aeric Epiaquepts 10% Rapid water movement Seepage
58B	Colonie loamy fine sand, 3 to 8 percent slopes	Very limited	Colonie 95% Slope Rapid water movement Seepage Low water holding capacity Water Erosion Elnora 5% Slope Rapid water movement Seepage Low water holding capacity
58C	Colonie loamy fine sand, 8 to 15 percent slopes	Very limited	Colonie 95% Slope Rapid water movement Seepage Water Erosion Low water holding capacity Elnora 5% Slope Rapid water movement Seepage Low water holding capacity Water Erosion

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62B	Mardin channery silt loam, 3 to 8 percent slopes	Not rated	Mardin 85% Bath 5% Volusia 5%
62C	Mardin channery silt loam, 8 to 15 percent slopes	Not rated	Mardin 88% Bath 5% Volusia 5%
62D	Mardin channery silt loam, 15 to 25 percent slopes	Not rated	Mardin 85% Bath 5% Volusia 5%
62E	Mardin channery silt loam, 25 to 35 percent slopes	Not rated	Mardin 80% Bath 8% Volusia 5%
63B	Langford channery silt loam, 3 to 8 percent slopes	Very limited	Langford 90% Slope Low water holding capacity Rapid water movement Water Erosion Erie 10% Slope Low water holding capacity Water Erosion
63C	Langford channery silt loam, 8 to 15 percent slopes	Very limited	Langford 90% Slope Water Erosion Low water holding capacity Rapid water movement Erie 10% Slope Low water holding capacity Water Erosion
63D	Langford channery silt loam, 15 to 25 percent slopes	Very limited	Langford 90% Slope Water Erosion Low water holding capacity Rapid water movement Erie 10% Slope Low water holding capacity Water Erosion
64B	Langford-Erie channery silt loams, 3 to 8 percent slopes	Very limited	Langford 55% Slope Low water holding capacity Rapid water movement Water Erosion Erie 45% Slope Low water holding capacity

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66A	Lyons soils, 0 to 3 percent slopes	Very limited	Lyons 75% Depth to saturated zone Rapid water movement Lyons, frequently ponded 15% Depth to saturated zone Ponding Rapid water movement Canandaigua 3% Depth to saturated zone Rapid water movement Ilion 1% Depth to saturated zone Palms 1% Depth to saturated zone Rapid water movement Ponding Seepage
68A	Volusia channery silt loam, 0 to 3 percent slopes	Not rated	Volusia 90% Mardin 5% Chippewa 5%
68B	Volusia channery silt loam, 3 to 8 percent slopes	Not rated	Volusia 90% Chippewa 5% Mardin 5%
68C	Volusia channery silt loam, 8 to 15 percent slopes	Not rated	Volusia 90% Mardin 6% Chippewa 4%
68D	Volusia channery silt loam, 15 to 25 percent slopes	Not rated	Volusia 90% Mardin 7% Chippewa 3%
69A	Erie channery silt loam, 0 to 3 percent slopes	Very limited	Erie 95% Low water holding capacity Slope Chippewa 5% Depth to saturated zone Low water holding capacity Slope
69B	Erie channery silt loam, 3 to 8 percent slopes	Very limited	Erie 95% Slope Low water holding capacity Chippewa 5% Depth to saturated zone Slope Low water holding capacity Water Erosion
69C	Erie channery silt loam, 8 to 15 percent slopes	Very limited	Erie 95% Slope Low water holding capacity Water Erosion Chippewa 5% Depth to saturated zone Slope Low water holding capacity Water Erosion
71A	Darien silt loam, 0 to 3 percent slopes	Somewhat limited	Darien 95% Rapid water movement Angola 1% Depth to hard bedrock Low water holding capacity Rapid water movement

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71B	Darien silt loam, 3 to 8 percent slopes	Very limited	Darien 95% Slope Water Erosion Rapid water movement Ilion 4% Depth to saturated zone Slope Water Erosion Angola 1% Slope Depth to hard bedrock Low water holding capacity Water Erosion Rapid water movement
71C	Darien silt loam, 8 to 15 percent slopes	Very limited	Darien 95% Slope Water Erosion Rapid water movement Ilion 4% Depth to saturated zone Slope Water Erosion Angola 1% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement
72A	Darien-Ilion silt loams, 0 to 3 percent slopes	Somewhat limited	Darien 68% Rapid water movement Angola 5% Depth to hard bedrock Low water holding capacity Rapid water movement
72B	Darien-Ilion silt loams, 3 to 8 percent slopes	Very limited	Darien 68% Slope Water Erosion Rapid water movement Ilion 27% Depth to saturated zone Slope Water Erosion Angola 5% Slope Depth to hard bedrock Low water holding capacity Water Erosion Rapid water movement
73B	Greter silt loam, 3 to 8 percent slopes	Very limited	Greter 95% Slope Depth to hard bedrock Low water holding capacity Rapid water movement Water Erosion Greter, poorly drained 5% Depth to saturated zone Slope Depth to hard bedrock Low water holding capacity Rapid water movement

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73C	Gretor silt loam, 8 to 15 percent slopes	Very limited	Gretor 95% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement Gretor, poorly drained 5% Depth to saturated zone Slope Depth to hard bedrock Low water holding capacity Rapid water movement
73D	Gretor channery silt loam, 15 to 25 percent slopes	Very limited	Gretor 90% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement Mongaup, very stony 8% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement Gretor, poorly drained 2% Depth to saturated zone Slope Depth to hard bedrock Low water holding capacity Rapid water movement
76B	Orpark silt loam, 3 to 8 percent slopes	Very limited	Orpark 95% Slope Depth to hard bedrock Low water holding capacity Water Erosion Rapid water movement Orpark, poorly drained 5% Depth to saturated zone Slope Depth to hard bedrock Low water holding capacity Water Erosion
76C	Orpark silt loam, 8 to 15 percent slopes	Very limited	Orpark 95% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement Orpark, poorly drained 5% Depth to saturated zone Slope Depth to hard bedrock Low water holding capacity Water Erosion

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76D	Orpark channery silt loam, 15 to 25 percent slopes	Very limited	Orpark 90% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement Lordstown, very stony 5% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Water Erosion Orpark, poorly drained 5% Depth to saturated zone Slope Depth to hard bedrock Low water holding capacity Water Erosion
77A	Chippewa silt loam, 0 to 3 percent slopes	Not rated	Chippewa 85% Chippewa, very poorly drained 10% Volusia 5%
77B	Chippewa silt loam, 3 to 8 percent slopes	Not rated	Chippewa 85% Volusia 10% Chippewa, very poorly drained 5%
82B	Manlius channery silt loam, 3 to 8 percent slopes	Very limited	Manlius 95% Slope Low water holding capacity Seepage Rapid water movement Depth to soft bedrock Gretor 5% Slope Depth to hard bedrock Low water holding capacity Rapid water movement Water Erosion
82C	Manlius channery silt loam, 8 to 15 percent slopes	Very limited	Manlius 95% Slope Low water holding capacity Water Erosion Seepage Rapid water movement Gretor 5% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
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 Water Erosion Low water holding capacity Seepage Rapid water movement Arnot 4% Depth to hard bedrock Slope Low water holding capacity Content of large stones Rapid water movement Greter 1% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement
91A	Palms muck, 0 to 3 percent slopes	Very limited	Palms, undrained 55% Depth to saturated zone Rapid water movement Ponding Seepage Palms, drained 40% Rapid water movement Depth to saturated zone Seepage Canandaigua 5% Depth to saturated zone Ponding Rapid water movement
92A	Carlisle muck, 0 to 3 percent slopes	Very limited	Carlisle, undrained 45% Depth to saturated zone Rapid water movement Ponding Seepage Carlisle, drained 40% Rapid water movement Depth to saturated zone Seepage Palms, undrained 10% Depth to saturated zone Rapid water movement Ponding Seepage Canandaigua 5% Depth to saturated zone Ponding Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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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% Depth to saturated zone Rapid water movement Ponding Calcium carbonate Seepage Edwards, drained 35% Rapid water movement Depth to saturated zone Calcium carbonate Seepage Martisco, undrained 10% Depth to saturated zone Ponding Calcium carbonate Seepage Canandaigua 5% Depth to saturated zone Ponding Rapid water movement
94A	Martisco muck, 0 to 3 percent slopes	Very limited	Martisco, undrained 55% Depth to saturated zone Ponding Calcium carbonate Seepage Canandaigua 5% Depth to saturated zone Ponding Rapid water movement Palms, drained 5% Rapid water movement Depth to saturated zone Seepage
95A	Saprists, 0 to 3 percent slopes, inundated	Very limited	Saprists, inundated 85% Depth to saturated zone Rapid water movement Ponding Seepage Carlisle, undrained 5% Depth to saturated zone Rapid water movement Ponding Seepage Fluvaquents, frequently flooded 5% Depth to saturated zone Rapid water movement Seepage Frequent or very frequent flooding Low water holding capacity Palms, undrained 5% Depth to saturated zone Rapid water movement Ponding Seepage

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
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% Slope Rapid water movement Lima 5% Slope Rapid water movement Lansing 4% Rapid water movement Slope Kendaia 4% Rapid water movement Slope Wassaic 2% Low water holding capacity Depth to hard bedrock Slope Rapid water movement
101B	Honeoye loam, 3 to 8 percent slopes	Very limited	Honeoye 85% Slope Water Erosion Rapid water movement Lima 5% Slope Water Erosion Rapid water movement Lansing 4% Slope Rapid water movement Water Erosion Kendaia 4% Slope Rapid water movement Water Erosion Wassaic 2% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Water Erosion
101C	Honeoye loam, 8 to 15 percent slopes	Very limited	Honeoye 85% Slope Water Erosion Rapid water movement Lima 5% Slope Water Erosion Rapid water movement Kendaia 4% Slope Water Erosion Rapid water movement Lansing 4% Slope Water Erosion Rapid water movement Wassaic 2% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101D	Honeoye loam, 15 to 25 percent slopes	Very limited	Honeoye 85% Slope Water Erosion Rapid water movement Lima 5% Slope Water Erosion Rapid water movement Lansing 4% Slope Water Erosion Rapid water movement Kendaia 4% Slope Water Erosion Rapid water movement Wassaic 2% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement
101E	Honeoye loam, 25 to 35 percent slopes	Very limited	Honeoye 85% Slope Water Erosion Rapid water movement Lima 5% Slope Water Erosion Rapid water movement Lansing 4% Slope Water Erosion Rapid water movement Kendaia 4% Slope Water Erosion Rapid water movement Wassaic 2% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement
104A	Honeoye loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Slope Rapid water movement Lima 5% Slope Rapid water movement Lansing 4% Rapid water movement Slope Kendaia 4% Rapid water movement Slope Wassaic 2% Low water holding capacity Depth to hard bedrock Slope Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
104B	Honeoye loam, 3 to 8 percent slopes, lower clay surface	Very limited	Honeoye, lower clay surface 85% Slope Water Erosion Rapid water movement Lima 5% Slope Water Erosion Rapid water movement Lansing 4% Slope Rapid water movement Water Erosion Kendaia 4% Slope Rapid water movement Water Erosion Wassaic 2% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Water Erosion
104C	Honeoye loam, 8 to 15 percent slopes, lower clay surface	Very limited	Honeoye, lower clay surface 85% Slope Water Erosion Rapid water movement Lima 5% Slope Water Erosion Rapid water movement Lansing 4% Slope Water Erosion Rapid water movement Kendaia 4% Slope Water Erosion Rapid water movement Wassaic 2% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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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% Slope Water Erosion Rapid water movement Lansing 45% Slope Rapid water movement Water Erosion Conesus 2% Slope Rapid water movement Water Erosion Palatine 1% Slope Rapid water movement Low water holding capacity Depth to hard bedrock Water Erosion Appleton 1% Slope Water Erosion Rapid water movement
107B	Conesus-Lansing complex, 3 to 8 percent slopes	Very limited	Conesus 50% Slope Rapid water movement Water Erosion Lansing 45% Slope Rapid water movement Water Erosion Appleton 1% Slope Water Erosion Rapid water movement Danley 1% Slope Water Erosion Rapid water movement Palatine 1% Slope Rapid water movement Low water holding capacity Depth to hard bedrock Water Erosion

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
108C	Lansing loam, 8 to 15 percent slopes	Very limited	Lansing 85% Slope Water Erosion Rapid water movement Conesus 8% Slope Water Erosion Rapid water movement Appleton 2% Slope Water Erosion Rapid water movement Danley 1% Slope Water Erosion Rapid water movement Wassaic 1% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement
108D	Lansing loam, 15 to 25 percent slopes	Very limited	Lansing 85% Slope Water Erosion Rapid water movement Conesus 9% Slope Water Erosion Rapid water movement Wassaic 3% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement Appleton 1% Slope Water Erosion Rapid water movement
108E	Lansing loam, 25 to 35 percent slopes	Very limited	Lansing 85% Slope Water Erosion Rapid water movement Cazenovia 10% Slope Water Erosion Rapid water movement Low water holding capacity Aurora 5% Slope Water Erosion Depth to hard bedrock
112B	Ontario fine sandy loam, 3 to 8 percent slopes	Very limited	Ontario 90% Slope Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
112C	Ontario fine sandy loam, 8 to 15 percent slopes	Very limited	Ontario 95% Slope Rapid water movement Water Erosion Palmyra 5% Slope Seepage Water Erosion Rapid water movement Low water holding capacity
112D	Ontario fine sandy loam, 15 to 25 percent slopes	Very limited	Ontario 95% Slope Water Erosion Rapid water movement Palmyra 5% Slope Water Erosion Seepage Rapid water movement Low water holding capacity
112E	Ontario fine sandy loam, 25 to 35 percent slopes	Very limited	Ontario 93% Slope Water Erosion Rapid water movement Palmyra 5% Slope Water Erosion Seepage Rapid water movement Low water holding capacity Manlius 2% Slope Water Erosion Low water holding capacity Seepage Rapid water movement
114B	Ontario gravelly loam, 3 to 8 percent slopes	Very limited	Ontario 98% Slope Rapid water movement Water Erosion
114C	Ontario gravelly loam, 8 to 15 percent slopes	Very limited	Ontario 95% Slope Water Erosion Rapid water movement Palmyra 5% Slope Seepage Rapid water movement Water Erosion Low water holding capacity
114D	Ontario gravelly loam, 15 to 25 percent slopes	Very limited	Ontario 95% Slope Water Erosion Rapid water movement Palmyra 5% Slope Water Erosion Seepage Rapid water movement Low water holding capacity

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
116B	Ontario loam, 3 to 8 percent slopes	Very limited	Ontario 90% Slope Rapid water movement Water Erosion
116C	Ontario loam, 8 to 15 percent slopes	Very limited	Ontario 95% Slope Water Erosion Rapid water movement
116D	Ontario loam, 15 to 25 percent slopes	Very limited	Ontario 95% Slope Water Erosion Rapid water movement
118F	Ontario, Honeoye, and Lansing soils, 35 to 55 percent slopes	Very limited	Ontario 40% Slope Water Erosion Rapid water movement Honeoye 35% Slope Water Erosion Rapid water movement Lansing 20% Slope Water Erosion Rapid water movement Aurora 5% Slope Water Erosion Depth to hard bedrock
120E	Palmyra and Howard soils, 25 to 45 percent slopes	Very limited	Palmyra 55% Slope Water Erosion Seepage Rapid water movement Low water holding capacity Howard 40% Slope Rapid water movement Water Erosion Seepage Low water holding capacity Colonie 5% Slope Rapid water movement Water Erosion Seepage Low water holding capacity
122A	Palmyra cobbly loam, 0 to 3 percent slopes	Very limited	Palmyra 95% Seepage Rapid water movement Slope Low water holding capacity
122B	Palmyra cobbly loam, 3 to 8 percent slopes	Very limited	Palmyra 95% Slope Seepage Rapid water movement Low water holding capacity

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
124A	Palmyra fine sandy loam, 0 to 3 percent slopes	Very limited	Palmyra 90% Seepage Slope Rapid water movement Low water holding capacity Howard 10% Rapid water movement Seepage Slope Low water holding capacity
124B	Palmyra fine sandy loam, 3 to 8 percent slopes	Very limited	Palmyra 90% Slope Seepage Rapid water movement Low water holding capacity Water Erosion Howard 10% Slope Rapid water movement Seepage Low water holding capacity
126A	Palmyra gravelly loam, 0 to 3 percent slopes	Very limited	Palmyra 95% Seepage Rapid water movement Slope Low water holding capacity Arkport 5% Rapid water movement Seepage Slope
126B	Palmyra gravelly loam, 3 to 8 percent slopes	Very limited	Palmyra 95% Slope Seepage Rapid water movement Low water holding capacity Water Erosion Arkport 5% Slope Rapid water movement Seepage Water Erosion
126C	Palmyra gravelly loam, 8 to 15 percent slopes	Very limited	Palmyra 90% Slope Seepage Rapid water movement Water Erosion Low water holding capacity Arkport 10% Slope Rapid water movement Seepage Water Erosion

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
126D	Palmyra gravelly loam, 15 to 25 percent slopes	Very limited	Palmyra 90% Slope Water Erosion Seepage Rapid water movement Low water holding capacity Arkport 10% Slope Rapid water movement Water Erosion Seepage
128A	Palmyra gravelly sandy loam, 0 to 3 percent slopes	Very limited	Palmyra 90% Seepage Low water holding capacity Rapid water movement Slope Arkport 10% Rapid water movement Seepage Slope
128B	Palmyra gravelly sandy loam, 3 to 8 percent slopes	Very limited	Palmyra 90% Slope Seepage Low water holding capacity Rapid water movement Water Erosion Arkport 10% Slope Rapid water movement Seepage Water Erosion
128C	Palmyra gravelly sandy loam, 8 to 15 percent slopes	Very limited	Palmyra 90% Slope Seepage Low water holding capacity Rapid water movement Water Erosion Arkport 10% Slope Rapid water movement Seepage Water Erosion
130A	Farmington loam, 0 to 3 percent slopes	Very limited	Farmington 90% Depth to hard bedrock Low water holding capacity Slope Rapid water movement Galoo 5% Depth to hard bedrock Low water holding capacity Slope

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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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 Slope Low water holding capacity Water Erosion Rapid water movement Galoo 5% Depth to hard bedrock Slope Low water holding capacity Water Erosion Nuhi 5% Slope Depth to hard bedrock Rapid water movement Low water holding capacity Water Erosion
132A	Galoo loam, 0 to 3 percent slopes, rocky	Very limited	Galoo 95% Depth to hard bedrock Low water holding capacity
132B	Galoo loam, 3 to 8 percent slopes, rocky	Very limited	Galoo 95% Depth to hard bedrock Slope Low water holding capacity Water Erosion
134A	Camillus silt loam, 0 to 3 percent slopes	Somewhat limited	Camillus 95% Seepage Depth to hard bedrock Rapid water movement Low water holding capacity Angola 5% Depth to hard bedrock Low water holding capacity Rapid water movement
134B	Camillus silt loam, 3 to 8 percent slopes	Very limited	Camillus 95% Slope Seepage Depth to hard bedrock Rapid water movement Low water holding capacity Angola 5% Slope Depth to hard bedrock Low water holding capacity Water Erosion Rapid water movement
151C	Willdin-Norchip complex, 3 to 15 percent slopes	Not rated	Willdin 60% Norchip 38%

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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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	Very limited	Valois 85% Slope Seepage Rapid water movement Low water holding capacity Cadosia 5% Slope Rapid water movement Too acid Content of large stones Volusia 5% Slope Low water holding capacity Mardin 5% Slope Low water holding capacity Rapid water movement Water Erosion
152C	Valois gravelly loam, 8 to 15 percent slopes	Very limited	Valois 85% Slope Seepage Rapid water movement Water Erosion Low water holding capacity Volusia 5% Slope Low water holding capacity Water Erosion Cadosia 5% Slope Rapid water movement Water Erosion Too acid Content of large stones Mardin 5% Slope Water Erosion Low water holding capacity Rapid water movement
152D	Valois gravelly loam, 15 to 25 percent slopes	Very limited	Valois 85% Slope Water Erosion Seepage Rapid water movement Low water holding capacity Cadosia 6% Slope Water Erosion Rapid water movement Too acid Content of large stones Mardin 6% Slope Water Erosion Low water holding capacity Rapid water movement Volusia 3% Slope Water Erosion Low water holding capacity

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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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 Water Erosion Seepage Rapid water movement Low water holding capacity Cadosia 6% Slope Water Erosion Rapid water movement Too acid Content of large stones Mardin 6% Slope Water Erosion Low water holding capacity Rapid water movement Towerville, extremely stony 3% Slope Water Erosion Content of large stones Depth to hard bedrock Low water holding capacity
153B	Valois gravelly loam, cool, 3 to 8 percent slopes	Very limited	Valois, cool 85% Slope Seepage Rapid water movement Ontusia 5% Slope Low water holding capacity Rapid water movement Rockrift 5% Slope Rapid water movement Content of large stones Water Erosion Too acid Willdin 5% Slope Low water holding capacity Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
153C	Valois gravelly loam, cool, 8 to 15 percent slopes	Very limited	Valois, cool 85% Slope Seepage Rapid water movement Water Erosion Rockrift 5% Slope Water Erosion Rapid water movement Content of large stones Too acid Ontusia 5% Slope Low water holding capacity Rapid water movement Water Erosion Willdin 5% Slope Low water holding capacity Rapid water movement Water Erosion
153D	Valois gravelly loam, cool, 15 to 25 percent slopes	Very limited	Valois, cool 85% Slope Water Erosion Seepage Rapid water movement Willdin 6% Slope Water Erosion Low water holding capacity Rapid water movement Rockrift 6% Slope Water Erosion Rapid water movement Content of large stones Too acid Ontusia 3% Slope Water Erosion Low water holding capacity Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

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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 Water Erosion Seepage Rapid water movement Willdin 6% Slope Water Erosion Low water holding capacity Rapid water movement Rockrift 6% Slope Water Erosion Rapid water movement Content of large stones Too acid Ischua 3% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement
162B	Willdin channery silt loam, 3 to 8 percent slopes	Not rated	Willdin 85% Ontusia 5% Lewbath 5%
162C	Willdin channery silt loam, 8 to 15 percent slopes	Not rated	Willdin 85% Ontusia 6% Lewbath 6%
162D	Willdin channery silt loam, 15 to 25 percent slopes	Not rated	Willdin 80% Lewbath 10% Ontusia 5%
168A	Ontusia channery silt loam, 0 to 3 percent slopes	Not rated	Ontusia 88% Norchip 5% Willdin 5%
168B	Ontusia channery silt loam, 3 to 8 percent slopes	Not rated	Ontusia 90% Norchip 5% Willdin 5%
168C	Ontusia channery silt loam, 8 to 15 percent slopes	Not rated	Ontusia 90% Norchip 5% Willdin 5%
168D	Ontusia channery silt loam, 15 to 25 percent slopes	Not rated	Ontusia 90% Willdin 7% Norchip 3%

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 13 - 09/24/2016

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171C	Lordstown-Manlius-Towerville complex, 8 to 15 percent slopes	Very limited	Lordstown 40% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Content of large stones Manlius 20% Slope Low water holding capacity Seepage Depth to soft bedrock Content of large stones Towerville 20% Slope Content of large stones Depth to hard bedrock Low water holding capacity Rapid water movement Cadosia 10% Slope Rapid water movement Water Erosion Too acid Content of large stones Mardin 5% Slope Water Erosion Low water holding capacity Rapid water movement Arnot 5% Depth to hard bedrock Slope Low water holding capacity Content of large stones Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 13 - 09/24/2016

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171D	Lordstown-Manlius-Towerville complex, 15 to 25 percent slopes, very stony	Very limited	Lordstown, very stony 40% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Water Erosion Manlius, very stony 20% Slope Low water holding capacity Seepage Depth to soft bedrock Content of large stones Towerville, very stony 20% Slope Content of large stones Depth to hard bedrock Low water holding capacity Rapid water movement Cadosia 10% Slope Water Erosion Rapid water movement Too acid Content of large stones Arnot 5% Depth to hard bedrock Slope Low water holding capacity Content of large stones Rapid water movement Mardin 5% Slope Water Erosion Low water holding capacity Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171E	Lordstown-Manlius-Towerville complex, 25 to 35 percent slopes, extremely stony	Very limited	Lordstown, extremely stony 40% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement Towerville, extremely stony 20% Slope Content of large stones Depth to hard bedrock Low water holding capacity Water Erosion Manlius, extremely stony 20% Slope Water Erosion Low water holding capacity Seepage Depth to soft bedrock Cadosia 10% Slope Water Erosion Rapid water movement Too acid Content of large stones Mardin 5% Slope Water Erosion Low water holding capacity Rapid water movement Arnot 5% Depth to hard bedrock Slope Low water holding capacity Content of large stones Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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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 Seepage Low water holding capacity Depth to hard bedrock Rapid water movement Manlius, extremely stony 20% Slope Water Erosion Low water holding capacity Seepage Depth to soft bedrock Towerville, extremely stony 20% Slope Water Erosion Content of large stones Depth to hard bedrock Low water holding capacity Arnot, extremely stony 10% Depth to hard bedrock Slope Low water holding capacity Seepage Rapid water movement Cadosia, extremely stony 10% Slope Seepage Rapid water movement Content of large stones Low water holding capacity
177A	Norchip silt loam, 0 to 3 percent slopes	Not rated	Norchip 85% Norchip, very poorly drained 10% Ontusia 5%
177B	Norchip silt loam, 3 to 8 percent slopes	Not rated	Norchip 85% Norchip, very poorly drained 10% Ontusia 5%

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
181B	Mongaup-Ischua complex, 3 to 8 percent slopes	Very limited	Mongaup 45% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Ischua 40% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Rockrift 10% Slope Rapid water movement Content of large stones Water Erosion Too acid Willdin 3% Slope Low water holding capacity Rapid water movement Gretor 2% Slope Depth to hard bedrock Low water holding capacity Rapid water movement Water Erosion
181C	Mongaup-Ischua complex, 8 to 15 percent slopes	Very limited	Mongaup 45% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Water Erosion Ischua 40% Slope Low water holding capacity Depth to hard bedrock Water Erosion Rapid water movement Rockrift 10% Slope Water Erosion Rapid water movement Content of large stones Too acid Willdin 3% Slope Low water holding capacity Rapid water movement Water Erosion Gretor 2% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
181D	Mongaup-Ischua complex, 15 to 25 percent slopes, very stony	Very limited	Mongaup, very stony 45% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement Ischua, very stony 40% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement Rockrift 10% Slope Water Erosion Rapid water movement Content of large stones Too acid Willdin 3% Slope Water Erosion Low water holding capacity Rapid water movement Greter 2% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement
181E	Mongaup-Ischua complex, 25 to 35 percent slopes, extremely stony	Very limited	Mongaup, extremely stony 45% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement Ischua, extremely stony 40% Slope Water Erosion Low water holding capacity Depth to hard bedrock Rapid water movement Rockrift 10% Slope Water Erosion Rapid water movement Content of large stones Too acid Willdin 3% Slope Water Erosion Low water holding capacity Rapid water movement Greter 2% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
182B	Mongaup channery loam, 3 to 8 percent slopes	Very limited	Mongaup 75% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Rockrift 10% Slope Rapid water movement Content of large stones Water Erosion Too acid Willdin 8% Slope Low water holding capacity Rapid water movement Ischua 5% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Gretor 2% Slope Depth to hard bedrock Low water holding capacity Rapid water movement Water Erosion
182C	Mongaup channery loam, 8 to 15 percent slopes	Very limited	Mongaup 75% Slope Low water holding capacity Depth to hard bedrock Rapid water movement Water Erosion Rockrift 10% Slope Water Erosion Rapid water movement Content of large stones Too acid Willdin 8% Slope Low water holding capacity Rapid water movement Water Erosion Ischua 5% Slope Low water holding capacity Depth to hard bedrock Water Erosion Rapid water movement Gretor 2% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

Ontario County, New York
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
201A	Lima loam, 0 to 3 percent slopes	Somewhat limited	Lima 85% Slope Rapid water movement Honeoye 5% Slope Rapid water movement Appleton 3% Slope Rapid water movement Kendaia 3% Rapid water movement Slope Cazenovia 2% Slope Rapid water movement Low water holding capacity
201B	Lima loam, 3 to 8 percent slopes	Very limited	Lima 85% Slope Rapid water movement Water Erosion Honeoye 6% Slope Water Erosion Rapid water movement Appleton 3% Slope Rapid water movement Water Erosion Kendaia 3% Slope Rapid water movement Water Erosion Cazenovia 2% Slope Water Erosion Rapid water movement Low water holding capacity Lyons 1% Depth to saturated zone Slope Rapid water movement Water Erosion

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
201C	Lima loam, 8 to 15 percent slopes	Very limited	Lima 85% Slope Water Erosion Rapid water movement Honeoye 7% Slope Water Erosion Rapid water movement Kendaia 3% Slope Water Erosion Rapid water movement Appleton 3% Slope Water Erosion Rapid water movement Cazenovia 2% Slope Water Erosion Rapid water movement Low water holding capacity
204A	Lima loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Lima 85% Slope Rapid water movement Honeoye 5% Slope Rapid water movement Appleton 3% Slope Rapid water movement Kendaia 3% Rapid water movement Slope Cazenovia 2% Slope Rapid water movement Low water holding capacity

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

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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% Slope Water Erosion Rapid water movement Honeoye 6% Slope Water Erosion Rapid water movement Appleton 3% Slope Rapid water movement Water Erosion Kendaia 3% Slope Rapid water movement Water Erosion Cazenovia 2% Slope Water Erosion Rapid water movement Low water holding capacity Lyons 1% Depth to saturated zone Slope Rapid water movement Water Erosion
210A	Phelps gravelly silt loam, 0 to 3 percent slopes	Very limited	Phelps 85% Seepage Rapid water movement Slope Low water holding capacity Galen 10% Rapid water movement Seepage Slope Homer 5% Seepage Rapid water movement Slope Low water holding capacity
210B	Phelps gravelly silt loam, 3 to 8 percent slopes	Very limited	Phelps 85% Slope Seepage Rapid water movement Low water holding capacity Water Erosion Galen 10% Slope Rapid water movement Seepage Homer 5% Slope Seepage Rapid water movement Low water holding capacity
212A	Nuhi silt loam, 0 to 3 percent slopes	Somewhat limited	Nuhi 85% Depth to hard bedrock Slope Rapid water movement Low water holding capacity

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Aggregation Method: Dominant Component
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	Very limited	Aurora 60% Slope Depth to hard bedrock Water Erosion Angola 30% Slope Depth to hard bedrock Low water holding capacity Water Erosion Rapid water movement Darien 5% Slope Water Erosion Rapid water movement Danley 5% Slope Water Erosion Rapid water movement
240C	Aurora-Angola silt loams, 8 to 15 percent slopes	Very limited	Aurora 60% Slope Water Erosion Depth to hard bedrock Angola 30% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement Danley 5% Slope Water Erosion Rapid water movement Darien 5% Slope Water Erosion Rapid water movement
240D	Aurora-Angola silt loams, 15 to 25 percent slopes	Very limited	Aurora 60% Slope Water Erosion Depth to hard bedrock Angola 30% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement Danley 5% Slope Water Erosion Rapid water movement Darien 5% Slope Water Erosion Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
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	Very limited	Aurora 85% Slope Depth to hard bedrock Water Erosion Angola 10% Slope Depth to hard bedrock Low water holding capacity Water Erosion Rapid water movement Danley 5% Slope Water Erosion Rapid water movement
241C	Aurora silt loam, 8 to 15 percent slopes	Very limited	Aurora 85% Slope Water Erosion Depth to hard bedrock Angola 8% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement Danley 7% Slope Water Erosion Rapid water movement
241D	Aurora silt loam, 15 to 25 percent slopes	Very limited	Aurora 85% Slope Water Erosion Depth to hard bedrock Danley 10% Slope Water Erosion Rapid water movement Angola 5% Slope Water Erosion Depth to hard bedrock Low water holding capacity Rapid water movement
255B	Cazenovia silt loam, 3 to 8 percent slopes	Very limited	Cazenovia 85% Slope Water Erosion Rapid water movement Ovid 10% Slope Rapid water movement Water Erosion Cayuga 5% Slope Water Erosion

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Aggregation Method: Dominant Component
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	Very limited	Cazenovia 85% Slope Water Erosion Rapid water movement Cayuga 8% Slope Water Erosion Ovid 7% Slope Water Erosion Rapid water movement
255D	Cazenovia silt loam, 15 to 25 percent slopes	Very limited	Cazenovia 85% Slope Water Erosion Rapid water movement Cayuga 10% Slope Water Erosion Ovid 5% Slope Water Erosion Rapid water movement
260B	Cayuga silt loam, 3 to 8 percent slopes	Very limited	Cayuga 85% Slope Water Erosion Schoharie 10% Slope Water Erosion Odessa 5% Slope Water Erosion
260C	Cayuga silt loam, 8 to 15 percent slopes	Very limited	Cayuga 85% Slope Water Erosion Schoharie 10% Slope Water Erosion Odessa 5% Slope Water Erosion
260D	Cayuga silt loam, 15 to 25 percent slopes	Very limited	Cayuga 85% Slope Water Erosion Lansing 10% Slope Water Erosion Rapid water movement Schoharie 5% Slope Water Erosion
304A	Kendaia loam, 0 to 3 percent slopes	Somewhat limited	Kendaia 85% Rapid water movement Slope Churchville 2% Slope Ovid 2% Slope Rapid water movement

Irrigation, Surface (Graded)

Aggregation Method: Dominant Component
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
304B	Kendaia loam, 3 to 8 percent slopes	Very limited	Kendaia 85% Slope Rapid water movement Water Erosion Lyons 4% Depth to saturated zone Slope Rapid water movement Water Erosion Churchville 2% Slope Water Erosion Ovid 2% Slope Water Erosion Rapid water movement
342A	Angola silt loam, 0 to 3 percent slopes	Somewhat limited	Angola 90% Depth to hard bedrock Low water holding capacity Rapid water movement Darren 5% Rapid water movement
356A	Ovid silt loam, 0 to 3 percent slopes	Somewhat limited	Ovid 85% Rapid water movement
356B	Ovid silt loam, 3 to 8 percent slopes	Very limited	Ovid 85% Slope Water Erosion Rapid water movement Odessa 10% Slope Water Erosion Lakemont 5% Depth to saturated zone
357B	Ovid silty clay loam, 3 to 8 percent slopes	Very limited	Ovid 85% Slope Rapid water movement Water Erosion Odessa 10% Slope Water Erosion Lakemont 5% Depth to saturated zone
357C	Ovid silty clay loam, 8 to 15 percent slopes	Very limited	Ovid 85% Slope Water Erosion Rapid water movement Odessa 10% Slope Water Erosion Lakemont 5% Depth to saturated zone

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Aggregation Method: Dominant Component
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	Very limited	Udorthents, Loamy 80% Rapid water movement Seepage Low water holding capacity Slope Ontario 5% Slope Rapid water movement Water Erosion Palmyra 5% Seepage Slope Rapid water movement Low water holding capacity Howard 5% Rapid water movement Seepage Slope Low water holding capacity
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% Lima 5% Kendaia 5%
W	Water	Not rated	Water 100%

Irrigation, Surface (Graded)

Rating Options

Attribute Name: Irrigation, Surface (Graded)

This interpretation evaluates a soil's limitation(s) for graded border and graded furrow surface irrigation systems. Graded border irrigation systems allow irrigation water to flow across the soil surface while being confined by borders. Graded furrow irrigation systems are systems that allow irrigation water to flow down furrow valleys while the crop being irrigated is planted on the furrow ridge. Generally, graded border systems are suitable for small grains while graded furrow systems are suitable for row crops. The ratings are for soils in their natural condition and do not consider present land use.

The soil properties and qualities important in the design and management of graded surface irrigation systems are depth, available water holding capacity, sodium adsorption ratio, surface rocks, saturated hydraulic conductivity, salinity, slope, wetness, and flooding. Features that affect system performance and plant growth are salinity, sodium adsorption ratio, wetness, calcium carbonate content, and available water holding capacity.

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 interpretation. "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).

Rating class terms indicate the extent to which the soils are limited by the soil features that affect the soil interpretation. Verbal soil rating classes are based on the highest numerical rating for the most limiting soil feature(s) considered in the rating process. "Not limited" (numerical value for the most restrictive feature = 0.00) indicates that the soil has no limiting features for the specified use. "Somewhat limited" (numerical value for the most restrictive feature = .01 to .99) indicates that the soil has limiting features for the specified use that can be overcome with proper planning, design, installation, and management. The effort required to overcome a soil limitation increases as the numerical rating increases. "Very limited" (numerical value for the most restrictive feature = 1.00) indicates that the soil has one or more very limiting features that can only be overcome with special planning, major soil modification, special design, or significant management practices.

Lesser soil restrictive features have a lower numerical value than the maximum used to rate the soil, and they are identified to provide the user with additional information about soil limitations for the specific use. Lesser soil restrictive features also need to be considered in planning, design, installation, and management.

The results of this interpretation are not designed or intended to be used in a regulatory manner.

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 Component

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

Irrigation, Surface (Graded)

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 Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

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.