

# Manure and Food-Processing Waste

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-Udifulvents complex, 0 to 3 percent slopes, frequently flooded	Very limited	Fluvaquents, frequently flooded 45% Depth to saturated zone Flooding Leaching Udifulvents, frequently flooded 40% Depth to saturated zone Flooding Droughty Leaching Cobble content Wayland 10% Depth to saturated zone Flooding Leaching Naples Creek 5% Depth to saturated zone Leaching Flooding Too acid
2A	Geneseo silty clay loam, 0 to 3 percent slopes	Somewhat limited	Geneseo 90% Slow water movement Depth to saturated zone Flooding
3A	Hemlock silty clay loam, 0 to 3 percent slopes	Very limited	Hemlock 90% Depth to saturated zone Slow water movement Flooding Leaching Naples Creek 10% Depth to saturated zone Leaching Flooding Too acid
4A	Naples Creek silty clay loam, 0 to 3 percent slopes	Very limited	Naples Creek 90% Depth to saturated zone Leaching Flooding Too acid Wayland 5% Depth to saturated zone Flooding Leaching Hemlock 5% Depth to saturated zone Slow water movement Flooding Leaching
5A	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Very limited	Wayland 60% Depth to saturated zone Flooding Leaching Wayland, very poorly drained 30% Ponding Depth to saturated zone Flooding Leaching Wakeville 10% Depth to saturated zone Leaching Flooding Too acid

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12D	Rockrift channery silt loam, 15 to 25 percent slopes	Very limited	Rockrift 85% Slope Too acid Cobble content Mongaup, very stony 10% Slope Droughty Depth to bedrock Large stones Too acid Willdin 5% Slope Slow water movement Depth to saturated zone Dense layer Droughty
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 Cobble content Too acid Lordstown, very stony 10% Slope Droughty Too acid Large stones Depth to bedrock Mardin 5% Slope Slow water movement Depth to saturated zone Dense layer Droughty
15A	Guyanoga channery silt loam, fan, 0 to 3 percent slopes	Somewhat limited	Guyanoga, fan 90% Too acid Droughty
15B	Guyanoga channery silt loam, fan, 3 to 8 percent slopes	Somewhat limited	Guyanoga, fan 90% Too acid Droughty

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16A	Almond channery silt loam, 0 to 3 percent slopes	Very limited	Almond 80% Slow water movement Depth to saturated zone Runoff Too acid Norchip 8% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Ontusia 7% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Greter 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Leaching
16B	Almond channery silt loam, 3 to 8 percent slopes	Very limited	Almond 80% Slow water movement Depth to saturated zone Runoff Too acid Greter 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Slope Salamanca 5% Depth to saturated zone Slow water movement Slope Leaching Too acid Ontusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Norchip 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
16C	Almond channery silt loam, 8 to 15 percent slopes	Very limited	Almond 80% Slow water movement Depth to saturated zone Slope Runoff Too acid Salamanca 5% Slope Depth to saturated zone Slow water movement Leaching Too acid Norchip 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Ontusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Slope Gretor 5% Slope Slow water movement Depth to saturated zone Depth to bedrock Droughty
18A	Homer fine sandy loam, 0 to 3 percent slopes	Very limited	Homer 90% Filtering capacity Depth to saturated zone Leaching Phelps 5% Depth to saturated zone Leaching Droughty Fine-loamy, mixed, active, mesic Typic Argiaquolls 5% Depth to saturated zone Leaching
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 Leaching Homer 8% Filtering capacity Depth to saturated zone Leaching Atherton 7% Depth to saturated zone Leaching Too acid Palms, undrained 5% Ponding Depth to saturated zone Leaching

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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 Leaching Too acid Fine-loamy, mixed, active, mesic Typic Argiaquolls 39% Ponding Depth to saturated zone Leaching Homer 8% Filtering capacity Depth to saturated zone Leaching Canandaigua 7% Depth to saturated zone Slow water movement Leaching Castile 5% Filtering capacity Depth to saturated zone Leaching Too acid Droughty
24A	Howard gravelly loam, 0 to 3 percent slopes	Very limited	Howard 80% Filtering capacity Leaching Too acid Droughty Palmyra 10% Filtering capacity Droughty Phelps 5% Depth to saturated zone Leaching Droughty
24B	Howard gravelly loam, 3 to 8 percent slopes	Very limited	Howard 80% Filtering capacity Leaching Too acid Droughty Palmyra 10% Filtering capacity Phelps 5% Depth to saturated zone Leaching Droughty
24C	Howard gravelly loam, 8 to 15 percent slopes	Very limited	Howard 80% Filtering capacity Leaching Slope Too acid Droughty Palmyra 10% Filtering capacity Slope Phelps 5% Depth to saturated zone Leaching Droughty

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24D	Howard soils, 15 to 25 percent slopes	Very limited	Howard 65% Slope Filtering capacity Leaching Too acid Droughty Palmyra 20% Slope Filtering capacity Arkport 13% Slope Leaching Phelps 2% Depth to saturated zone Leaching Droughty
25A	Chenango gravelly loam, 0 to 3 percent slopes	Very limited	Chenango 90% Filtering capacity Leaching Too acid Droughty Castile 8% Filtering capacity Depth to saturated zone Leaching Too acid Droughty
25B	Chenango gravelly loam, 3 to 8 percent slopes	Very limited	Chenango 90% Filtering capacity Leaching Too acid Droughty Castile 5% Filtering capacity Depth to saturated zone Leaching Too acid Droughty
25C	Chenango gravelly loam, 8 to 15 percent slopes	Very limited	Chenango 90% Filtering capacity Leaching Too acid Droughty Slope Castile 5% Filtering capacity Depth to saturated zone Leaching Too acid Droughty

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25D	Chenango gravelly loam, 15 to 25 percent slopes	Very limited	Chenango 90% Slope Filtering capacity Leaching Too acid Droughty Castile 8% Filtering capacity Depth to saturated zone Slope Leaching Too acid Valois 2% Slope Too acid
25E	Chenango gravelly loam, 25 to 35 percent slopes	Very limited	Chenango 90% Slope Filtering capacity Leaching Too acid Droughty Valois 10% Slope Too acid
26B	Chenango channery loam, fan, 3 to 8 percent slopes	Very limited	Chenango, fan 85% Filtering capacity Droughty Leaching Too acid Castile 5% Filtering capacity Depth to saturated zone Leaching Too acid Droughty Hemlock 5% Depth to saturated zone Slow water movement Flooding Leaching
27B	Castile gravelly silt loam, 3 to 8 percent slopes	Very limited	Castile 85% Filtering capacity Depth to saturated zone Leaching Too acid Droughty Phelps 5% Depth to saturated zone Leaching Droughty Chenango 5% Filtering capacity Leaching Too acid Droughty Homer 5% Filtering capacity Depth to saturated zone Leaching

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
31A	Collamer silt loam, 0 to 3 percent slopes	Very limited	Collamer 85% Depth to saturated zone Slow water movement Leaching Niagara 10% Depth to saturated zone Slow water movement Leaching Schoharie 5% Slow water movement Depth to saturated zone Leaching
31B	Collamer silt loam, 3 to 8 percent slopes	Very limited	Collamer 85% Depth to saturated zone Slow water movement Leaching Niagara 10% Depth to saturated zone Slow water movement Leaching Schoharie 5% Slow water movement Depth to saturated zone Leaching
31C	Collamer silt loam, 8 to 15 percent slopes	Very limited	Collamer 85% Depth to saturated zone Slow water movement Leaching Slope Niagara 10% Depth to saturated zone Slow water movement Leaching Schoharie 5% Slow water movement Depth to saturated zone Leaching Slope
31D	Collamer silt loam, 15 to 25 percent slopes	Very limited	Collamer 90% Slope Depth to saturated zone Slow water movement Leaching Schoharie 5% Slope Slow water movement Depth to saturated zone Leaching Niagara 5% Depth to saturated zone Slope Slow water movement Leaching
32A	Dunkirk fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Dunkirk 90% Slow water movement Arkport 4% Leaching
32B	Dunkirk fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Dunkirk 90% Slow water movement Arkport 4% Leaching



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33A	Dunkirk silt loam, 0 to 3 percent slopes	Very limited	Dunkirk 90% Slow water movement Niagara 3% Depth to saturated zone Slow water movement Leaching Schoharie 3% Slow water movement Depth to saturated zone Leaching
33B	Dunkirk silt loam, 3 to 8 percent slopes	Very limited	Dunkirk 90% Slow water movement Schoharie 3% Slow water movement Depth to saturated zone Leaching Niagara 3% Depth to saturated zone Slow water movement Leaching
33C	Dunkirk silt loam, 8 to 15 percent slopes	Very limited	Dunkirk 90% Slow water movement Slope Schoharie 3% Slow water movement Depth to saturated zone Slope Leaching Niagara 3% Depth to saturated zone Slow water movement Leaching
33D	Dunkirk silt loam, 15 to 25 percent slopes	Very limited	Dunkirk 90% Slope Slow water movement Schoharie 5% Slope Slow water movement Depth to saturated zone Leaching Arkport 5% Slope Leaching
33E	Dunkirk silt loam, 25 to 35 percent slopes	Very limited	Dunkirk 90% Slope Slow water movement Schoharie 5% Slope Slow water movement Depth to saturated zone Leaching Arkport 5% Slope Leaching

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34A	Lakemont silty clay loam, 0 to 3 percent slopes	Very limited	Lakemont 85% Slow water movement Depth to saturated zone Runoff Odessa 5% Slow water movement Depth to saturated zone Runoff Too acid Fonda 4% Slow water movement Ponding Depth to saturated zone Leaching Canandaigua 4% Depth to saturated zone Slow water movement Leaching Barre 2% Slow water movement Depth to saturated zone Leaching Too acid
35A	Odessa silt loam, 0 to 3 percent slopes	Very limited	Odessa 85% Slow water movement Depth to saturated zone Runoff Too acid Lakemont 5% Slow water movement Depth to saturated zone Runoff Schoharie 5% Slow water movement Depth to saturated zone Runoff Churchville 3% Depth to saturated zone Droughty Slow water movement Shallow to densic materials Leaching Rhinebeck 2% Slow water movement Depth to saturated zone Leaching

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35B	Odessa silty clay loam, 3 to 8 percent slopes	Very limited	Odessa 85% Slow water movement Depth to saturated zone Runoff Too acid Schoharie 6% Slow water movement Depth to saturated zone Runoff Lakemont 4% Slow water movement Depth to saturated zone Runoff Churchville 3% Depth to saturated zone Droughty Slow water movement Shallow to densic materials Leaching Rhinebeck 2% Slow water movement Depth to saturated zone Leaching
36A	Schoharie silty clay loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Runoff Cazenovia 5% Slow water movement Depth to saturated zone Odessa 5% Slow water movement Depth to saturated zone Runoff Too acid Cayuga 3% Slow water movement Depth to saturated zone Runoff Collamer 2% Depth to saturated zone Slow water movement Leaching Too acid

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36B	Schoharie silty clay loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Runoff Cazenovia 5% Slow water movement Depth to saturated zone Odessa 5% Slow water movement Depth to saturated zone Runoff Too acid Cayuga 3% Slow water movement Depth to saturated zone Runoff Collamer 2% Depth to saturated zone Slow water movement Leaching Too acid
36C	Schoharie silty clay loam, 8 to 15 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Runoff Slope Cazenovia 5% Slow water movement Depth to saturated zone Slope Odessa 5% Slow water movement Depth to saturated zone Runoff Slope Too acid Cayuga 3% Slow water movement Depth to saturated zone Runoff Slope Collamer 2% Depth to saturated zone Slow water movement Leaching Slope Too acid

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36D	Schoharie silty clay loam, 15 to 25 percent slopes	Very limited	Schoharie 85% Slope Slow water movement Depth to saturated zone Runoff Cazenovia 5% Slope Slow water movement Depth to saturated zone Odessa 5% Slope Slow water movement Depth to saturated zone Runoff Too acid Cayuga 3% Slope Slow water movement Depth to saturated zone Runoff Collamer 2% Slope Depth to saturated zone Slow water movement Leaching Too acid
36E	Schoharie silty clay loam, 25 to 45 percent slopes	Very limited	Schoharie 85% Slope Slow water movement Depth to saturated zone Runoff Odessa 5% Slope Slow water movement Depth to saturated zone Runoff Too acid Cazenovia 5% Slope Slow water movement Depth to saturated zone Cayuga 3% Slope Slow water movement Depth to saturated zone Runoff Collamer 2% Slope Depth to saturated zone Slow water movement Leaching Too acid

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37A	Schoharie silt loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Runoff Cazenovia 5% Slow water movement Depth to saturated zone Odessa 5% Slow water movement Depth to saturated zone Runoff Too acid Cayuga 3% Slow water movement Depth to saturated zone Runoff Collamer 2% Depth to saturated zone Slow water movement Leaching Too acid
37B	Schoharie silt loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Runoff Cazenovia 5% Slow water movement Depth to saturated zone Odessa 5% Slow water movement Depth to saturated zone Runoff Too acid Cayuga 3% Slow water movement Depth to saturated zone Runoff Collamer 2% Depth to saturated zone Slow water movement Leaching Too acid
38A	Niagara silt loam, 0 to 3 percent slopes	Very limited	Niagara 85% Depth to saturated zone Slow water movement Leaching Canandaigua 5% Depth to saturated zone Slow water movement Leaching Rhinebeck 5% Slow water movement Depth to saturated zone Leaching Collamer 5% Depth to saturated zone Slow water movement Leaching

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38B	Niagara silt loam, 3 to 8 percent slopes	Very limited	Niagara 85% Depth to saturated zone Slow water movement Leaching Canandaigua 5% Depth to saturated zone Slow water movement Leaching Rhinebeck 5% Slow water movement Depth to saturated zone Leaching Collamer 5% Depth to saturated zone Slow water movement Leaching
39A	Rhinebeck silty clay loam, 0 to 3 percent slopes	Very limited	Rhinebeck 90% Slow water movement Depth to saturated zone Leaching Lakemont 5% Slow water movement Depth to saturated zone Leaching Too acid Niagara 5% Depth to saturated zone Slow water movement Leaching
41A	Aeric Epiaquepts, 0 to 3 percent slopes	Very limited	Aeric Epiaquepts 50% Filtering capacity Depth to saturated zone Slow water movement Leaching Strongly contrasting textural stratification Aeric Epiaquepts 45% Filtering capacity Depth to saturated zone Slow water movement Leaching Strongly contrasting textural stratification Elnora 5% Filtering capacity Depth to saturated zone Too acid Droughty

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
43A	Canandaigua silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Depth to saturated zone Slow water movement Leaching Canandaigua 4% Ponding Depth to saturated zone Slow water movement Leaching Lakemont 3% Slow water movement Depth to saturated zone Leaching Too acid Niagara 3% Depth to saturated zone Slow water movement Leaching
44A	Canandaigua mucky silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Ponding Depth to saturated zone Slow water movement Leaching Canandaigua 5% Depth to saturated zone Slow water movement Leaching Lakemont 3% Slow water movement Depth to saturated zone Leaching Too acid Palms, undrained 2% Ponding Depth to saturated zone Leaching
45A	Fonda mucky silt loam, 0 to 3 percent slopes	Very limited	Fonda 95% Slow water movement Ponding Depth to saturated zone Leaching Canandaigua 3% Ponding Depth to saturated zone Slow water movement Leaching Palms, undrained 2% Ponding Depth to saturated zone Leaching



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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
46A	Galen fine sandy loam, 0 to 3 percent slopes	Very limited	Galen 90% Depth to saturated zone Leaching Too acid Aeric Epiaquepts 5% Filtering capacity Depth to saturated zone Slow water movement Leaching Strongly contrasting textural stratification Kendaia 5% Depth to saturated zone Leaching Too acid
46B	Galen fine sandy loam, 3 to 8 percent slopes	Very limited	Galen 90% Depth to saturated zone Leaching Too acid Kendaia 5% Depth to saturated zone Leaching Too acid Aeric Epiaquepts 5% Filtering capacity Depth to saturated zone Slow water movement Leaching Strongly contrasting textural stratification
48A	Arkport fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Arkport 95% Leaching Dunkirk 3% Slow water movement
48B	Arkport fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Leaching Dunkirk 3% Slow water movement
48C	Arkport fine sandy loam, 8 to 15 percent slopes	Somewhat limited	Arkport 95% Slope Leaching Dunkirk 3% Slope Slow water movement
48D	Arkport fine sandy loam, 15 to 25 percent slopes	Very limited	Arkport 90% Slope Leaching Dunkirk 8% Slope Slow water movement Palmyra 2% Slope Filtering capacity Droughty
49B	Arkport loamy fine sand, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Leaching Too acid Dunkirk 3% Slow water movement

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49D	Arkport loamy fine sand, 15 to 25 percent slopes	Very limited	Arkport 95% Slope Leaching Too acid Dunkirk 3% Slope Slow water movement Palmyra 2% Slope Filtering capacity Droughty
49E	Arkport loamy fine sand, 25 to 35 percent slopes	Very limited	Arkport 90% Slope Leaching Too acid Dunkirk 8% Slope Slow water movement Palmyra 2% Slope Filtering capacity Droughty
49F	Arkport loamy fine sand, 35 to 55 percent slopes	Very limited	Arkport 90% Slope Leaching Too acid Dunkirk 8% Slope Slow water movement Palmyra 2% Slope Filtering capacity Droughty
50B	Dunkirk-Arkport complex, 3 to 8 percent slopes	Very limited	Dunkirk 50% Slow water movement Collamer 5% Depth to saturated zone Slow water movement Leaching
50C	Dunkirk-Arkport complex, 8 to 15 percent slopes	Very limited	Dunkirk 60% Slow water movement Slope Collamer 5% Depth to saturated zone Slow water movement Leaching Slope
50D	Dunkirk-Arkport complex, 15 to 25 percent slopes	Very limited	Dunkirk 60% Slope Slow water movement Arkport 35% Slope Leaching Collamer 5% Slope Depth to saturated zone Slow water movement Leaching

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53A	Lamson fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Depth to saturated zone Leaching Lamson 5% Ponding Depth to saturated zone Leaching Droughty Canandaigua 3% Depth to saturated zone Slow water movement Leaching Galen 2% Depth to saturated zone Leaching Too acid
54A	Lamson mucky fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Ponding Depth to saturated zone Leaching Droughty Canandaigua 5% Depth to saturated zone Slow water movement Leaching Lamson 5% Depth to saturated zone Leaching
56A	Elnora loamy fine sand, 0 to 3 percent slopes	Very limited	Elnora 90% Filtering capacity Depth to saturated zone Too acid Droughty Aeric Epiaquepts 10% Filtering capacity Depth to saturated zone Slow water movement Leaching Strongly contrasting textural stratification
58B	Colonie loamy fine sand, 3 to 8 percent slopes	Somewhat limited	Colonie 95% Leaching Too acid
58C	Colonie loamy fine sand, 8 to 15 percent slopes	Somewhat limited	Colonie 95% Leaching Slope Too acid

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62B	Mardin channery silt loam, 3 to 8 percent slopes	Very limited	Mardin 85% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Bath 5% Slow water movement Depth to saturated zone Slope Droughty Too acid Volusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff
62C	Mardin channery silt loam, 8 to 15 percent slopes	Very limited	Mardin 88% Slow water movement Depth to saturated zone Dense layer Droughty Slope Bath 5% Slope Slow water movement Depth to saturated zone Droughty Too acid Volusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Lordstown 2% Slope Droughty Depth to bedrock Too acid Cobble content

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62D	Mardin channery silt loam, 15 to 25 percent slopes	Very limited	Mardin 85% Slope Slow water movement Depth to saturated zone Dense layer Droughty Lordstown 5% Slope Droughty Too acid Depth to bedrock Cobble content Volusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Slope Bath 5% Slope Slow water movement Depth to saturated zone Droughty Too acid
62E	Mardin channery silt loam, 25 to 35 percent slopes	Very limited	Mardin 80% Slope Slow water movement Depth to saturated zone Dense layer Droughty Bath 8% Slope Slow water movement Depth to saturated zone Droughty Too acid Lordstown, very stony 7% Slope Droughty Too acid Large stones Depth to bedrock Volusia 5% Slope Slow water movement Depth to saturated zone Dense layer Droughty

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63B	Langford channery silt loam, 3 to 8 percent slopes	Very limited	Langford 85% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Erie 10% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Schuyler 5% Depth to saturated zone Slow water movement Leaching Too acid
63C	Langford channery silt loam, 8 to 15 percent slopes	Very limited	Langford 85% Slow water movement Depth to saturated zone Dense layer Droughty Slope Erie 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Schuyler 5% Depth to saturated zone Slow water movement Slope Leaching Too acid

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63D	Langford channery silt loam, 15 to 25 percent slopes	Very limited	Langford 80% Slope Slow water movement Depth to saturated zone Dense layer Droughty Erie 5% Slow water movement Depth to saturated zone Dense layer Droughty Slope Schuyler 5% Slope Depth to saturated zone Slow water movement Leaching Too acid Towerville 5% Slope Slow water movement Depth to saturated zone Dense layer Leaching Chadakoin 5% Slope Too acid
64B	Langford-Erie channery silt loams, 3 to 8 percent slopes	Very limited	Langford 50% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Erie 40% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Chippewa 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Fremont 5% Slow water movement Depth to saturated zone Runoff Too acid

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66A	Lyons soils, 0 to 3 percent slopes	Very limited	Lyons 75% Depth to saturated zone Slow water movement Leaching Lyons, frequently ponded 15% Ponding Depth to saturated zone Slow water movement Leaching Appleton 3% Depth to saturated zone Dense layer Slow water movement Leaching Canandaigua 3% Depth to saturated zone Slow water movement Leaching Kendaia 2% Depth to saturated zone Leaching Too acid Palms, undrained 1% Ponding Depth to saturated zone Leaching Ilion 1% Slow water movement Depth to saturated zone Dense layer Leaching
68A	Volusia channery silt loam, 0 to 3 percent slopes	Very limited	Volusia 90% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Chippewa 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Mardin 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff



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68B	Volusia channery silt loam, 3 to 8 percent slopes	Very limited	Volusia 90% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Chippewa 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Mardin 5% Slow water movement Depth to saturated zone Dense layer Droughty Slope
68C	Volusia channery silt loam, 8 to 15 percent slopes	Very limited	Volusia 90% Slow water movement Depth to saturated zone Dense layer Droughty Slope Mardin 6% Slope Slow water movement Depth to saturated zone Dense layer Droughty Chippewa 4% Slow water movement Depth to saturated zone Dense layer Droughty Runoff
68D	Volusia channery silt loam, 15 to 25 percent slopes	Very limited	Volusia 90% Slope Slow water movement Depth to saturated zone Dense layer Droughty Mardin 7% Slope Slow water movement Depth to saturated zone Dense layer Droughty Chippewa 3% Slow water movement Depth to saturated zone Dense layer Droughty Runoff

# Manure and Food-Processing Waste

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
69A	Erie channery silt loam, 0 to 3 percent slopes	Very limited	Erie 80% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Chippewa 10% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Fremont 5% Slow water movement Depth to saturated zone Runoff Too acid Langford 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff
69B	Erie channery silt loam, 3 to 8 percent slopes	Very limited	Erie 80% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Langford 10% Slow water movement Depth to saturated zone Dense layer Droughty Slope Chippewa 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Fremont 5% Slow water movement Depth to saturated zone Runoff Too acid

# Manure and Food-Processing Waste

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
69C	Erie channery silt loam, 8 to 15 percent slopes	Very limited	Erie 80% Slow water movement Depth to saturated zone Dense layer Droughty Slope Langford 10% Slope Slow water movement Depth to saturated zone Dense layer Droughty Fremont 5% Slow water movement Depth to saturated zone Slope Runoff Too acid Chippewa 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff
71A	Darien silt loam, 0 to 3 percent slopes	Very limited	Darien 95% Slow water movement Depth to saturated zone Leaching Too acid Ilion 4% Slow water movement Depth to saturated zone Leaching Too acid Angola 1% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff
71B	Darien silt loam, 3 to 8 percent slopes	Very limited	Darien 95% Slow water movement Depth to saturated zone Leaching Too acid Ilion 4% Slow water movement Depth to saturated zone Leaching Too acid Angola 1% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

Ontario County, New York  
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
71C	Darien silt loam, 8 to 15 percent slopes	Very limited	Darien 95% Slow water movement Depth to saturated zone Slope Leaching Too acid Ilion 4% Slow water movement Depth to saturated zone Leaching Too acid Angola 1% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff
72A	Darien-Ilion silt loams, 0 to 3 percent slopes	Very limited	Darien 68% Slow water movement Depth to saturated zone Leaching Too acid Ilion 27% Slow water movement Depth to saturated zone Leaching Too acid Angola 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff
72B	Darien-Ilion silt loams, 3 to 8 percent slopes	Very limited	Darien 68% Slow water movement Depth to saturated zone Leaching Too acid Ilion 27% Slow water movement Depth to saturated zone Leaching Too acid Angola 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff
73B	Greter silt loam, 3 to 8 percent slopes	Very limited	Greter 95% Slow water movement Depth to saturated zone Depth to bedrock Droughty Leaching Greter, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Leaching

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
73C	Gretor silt loam, 8 to 15 percent slopes	Very limited	Gretor 95% Slow water movement Depth to saturated zone Depth to bedrock Droughty Leaching Gretor, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Leaching
73D	Gretor channery silt loam, 15 to 25 percent slopes	Very limited	Gretor 90% Slope Slow water movement Depth to saturated zone Depth to bedrock Droughty Mongaup, very stony 8% Slope Droughty Depth to bedrock Large stones Too acid Gretor, poorly drained 2% Slow water movement Depth to saturated zone Depth to bedrock Droughty Leaching
76B	Orpark silt loam, 3 to 8 percent slopes	Very limited	Orpark 95% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff Orpark, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff
76C	Orpark silt loam, 8 to 15 percent slopes	Very limited	Orpark 95% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff Orpark, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

Ontario County, New York  
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
76D	Orpark channery silt loam, 15 to 25 percent slopes	Very limited	Orpark 90% Slope Slow water movement Depth to saturated zone Depth to bedrock Droughty Orpark, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff Lordstown, very stony 5% Slope Droughty Too acid Large stones Depth to bedrock
77A	Chippewa silt loam, 0 to 3 percent slopes	Very limited	Chippewa 85% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Chippewa, very poorly drained 10% Slow water movement Ponding Depth to saturated zone Dense layer Droughty Volusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff
77B	Chippewa silt loam, 3 to 8 percent slopes	Very limited	Chippewa 85% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Volusia 10% Slow water movement Depth to saturated zone Dense layer Droughty Slope Chippewa, very poorly drained 5% Slow water movement Ponding Depth to saturated zone Dense layer Droughty
82B	Manlius channery silt loam, 3 to 8 percent slopes	Somewhat limited	Manlius 95% Droughty Too acid Depth to bedrock

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
82C	Manlius channery silt loam, 8 to 15 percent slopes	Somewhat limited	Manlius 95% Droughty Slope Too acid Depth to bedrock
82D	Manlius channery silt loam, 15 to 25 percent slopes	Very limited	Manlius 95% Slope Droughty Too acid Depth to bedrock Arnot, very stony 4% Slope Droughty Depth to bedrock Too acid Runoff Gretor 1% Slope Slow water movement Depth to saturated zone Depth to bedrock Droughty
91A	Palms muck, 0 to 3 percent slopes	Very limited	Palms, undrained 55% Ponding Depth to saturated zone Leaching Palms, drained 40% Depth to saturated zone Leaching Canandaigua 5% Ponding Depth to saturated zone Slow water movement Leaching
92A	Carlisle muck, 0 to 3 percent slopes	Very limited	Carlisle, undrained 45% Ponding Depth to saturated zone Leaching Too acid Carlisle, drained 40% Depth to saturated zone Leaching Too acid Palms, undrained 10% Ponding Depth to saturated zone Leaching Canandaigua 5% Ponding Depth to saturated zone Slow water movement Leaching

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
93A	Edwards muck, 0 to 3 percent slopes	Very limited	Edwards, undrained 50% Slow water movement Ponding Depth to saturated zone Leaching Too acid Edwards, drained 35% Slow water movement Depth to saturated zone Leaching Too acid Martisco, undrained 10% Slow water movement Ponding Depth to saturated zone Leaching Canandaigua 5% Ponding Depth to saturated zone Slow water movement Leaching
94A	Martisco muck, 0 to 3 percent slopes	Very limited	Martisco, undrained 55% Slow water movement Ponding Depth to saturated zone Leaching Martisco, drained 35% Slow water movement Depth to saturated zone Leaching Canandaigua 5% Ponding Depth to saturated zone Slow water movement Leaching Palms, drained 5% Depth to saturated zone Leaching
95A	Saprists, 0 to 3 percent slopes, inundated	Very limited	Saprists, inundated 85% Ponding Depth to saturated zone Leaching Palms, undrained 5% Ponding Depth to saturated zone Leaching Fluvaquents, frequently flooded 5% Depth to saturated zone Flooding Leaching Carlisle, undrained 5% Ponding Depth to saturated zone Leaching Too acid
101A	Honeoye loam, 0 to 3 percent slopes	Somewhat limited	Honeoye 85% Too acid Lansing 4% Too acid



# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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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% Too acid Lansing 4% Too acid
101C	Honeoye loam, 8 to 15 percent slopes	Somewhat limited	Honeoye 85% Slope Too acid Lansing 4% Slope Too acid
101D	Honeoye loam, 15 to 25 percent slopes	Very limited	Honeoye 85% Slope Too acid Lima 5% Depth to saturated zone Slope Leaching Lansing 4% Slope Too acid Kendaia 4% Depth to saturated zone Leaching Slope Too acid Wassaic 2% Slope Slow water movement Droughty Depth to bedrock
101E	Honeoye loam, 25 to 35 percent slopes	Very limited	Honeoye 85% Slope Too acid Lima 5% Depth to saturated zone Slope Leaching Kendaia 4% Depth to saturated zone Leaching Slope Too acid Lansing 4% Slope Too acid Wassaic 2% Slope Slow water movement Droughty Depth to bedrock
104A	Honeoye loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Too acid Lansing 4% Too acid
104B	Honeoye loam, 3 to 8 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Too acid Lansing 4% Too acid

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
104C	Honeoye loam, 8 to 15 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Slope Too acid Lansing 4% Slope Too acid
106B	Danley-Lansing complex, 3 to 8 percent slopes	Very limited	Danley 50% Slow water movement Depth to saturated zone Leaching Too acid Conesus 2% Depth to saturated zone Leaching Too acid Kendaia 1% Depth to saturated zone Leaching Too acid Palatine 1% Slow water movement Droughty Depth to bedrock Appleton 1% Depth to saturated zone Dense layer Slow water movement Leaching
107B	Conesus-Lansing complex, 3 to 8 percent slopes	Very limited	Conesus 50% Depth to saturated zone Leaching Too acid Kendaia 2% Depth to saturated zone Leaching Too acid Appleton 1% Depth to saturated zone Dense layer Slow water movement Leaching Danley 1% Slow water movement Depth to saturated zone Leaching Too acid Palatine 1% Slow water movement Droughty Depth to bedrock
108C	Lansing loam, 8 to 15 percent slopes	Somewhat limited	Lansing 85% Slope Too acid

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
112D	Ontario fine sandy loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Too acid Cazenovia 5% Slope Slow water movement Depth to saturated zone Honeoye 5% Slope Too acid Hilton 3% Depth to saturated zone Slope Leaching Too acid Appleton 2% Depth to saturated zone Slope Leaching
112E	Ontario fine sandy loam, 25 to 35 percent slopes	Very limited	Ontario 85% Slope Too acid Cazenovia 5% Slope Slow water movement Depth to saturated zone Honeoye 5% Slope Too acid Hilton 3% Depth to saturated zone Slope Leaching Too acid Appleton 2% Depth to saturated zone Slope Leaching
114B	Ontario gravelly loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Too acid Honeoye 5% Too acid
114C	Ontario gravelly loam, 8 to 15 percent slopes	Somewhat limited	Ontario 85% Slope Too acid Honeoye 5% Slope Too acid

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
118F	Ontario, Honeoye, and Lansing soils, 35 to 55 percent slopes	Very limited	Ontario 40% Slope Too acid Honeoye 35% Slope Too acid Lansing 20% Slope Too acid Aurora 5% Slope Slow water movement Depth to saturated zone Runoff Depth to bedrock
120E	Palmyra and Howard soils, 25 to 45 percent slopes	Very limited	Palmyra 55% Slope Filtering capacity Howard 40% Slope Filtering capacity Leaching Too acid Droughty Colonie 5% Slope Leaching Too acid
122A	Palmyra cobbly loam, 0 to 3 percent slopes	Very limited	Palmyra 95% Filtering capacity
122B	Palmyra cobbly loam, 3 to 8 percent slopes	Very limited	Palmyra 95% Filtering capacity
124A	Palmyra fine sandy loam, 0 to 3 percent slopes	Very limited	Palmyra 90% Filtering capacity Droughty Howard 10% Filtering capacity Leaching Too acid Droughty
124B	Palmyra fine sandy loam, 3 to 8 percent slopes	Very limited	Palmyra 90% Filtering capacity Droughty Howard 10% Filtering capacity Leaching Too acid Droughty
126A	Palmyra gravelly loam, 0 to 3 percent slopes	Very limited	Palmyra 95% Filtering capacity
126B	Palmyra gravelly loam, 3 to 8 percent slopes	Very limited	Palmyra 95% Filtering capacity
126C	Palmyra gravelly loam, 8 to 15 percent slopes	Very limited	Palmyra 90% Filtering capacity Slope

# Manure and Food-Processing Waste

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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 Filtering capacity Arkport 10% Slope Leaching
128A	Palmyra gravelly sandy loam, 0 to 3 percent slopes	Very limited	Palmyra 90% Filtering capacity Droughty Too acid
128B	Palmyra gravelly sandy loam, 3 to 8 percent slopes	Very limited	Palmyra 90% Filtering capacity Droughty Too acid
128C	Palmyra gravelly sandy loam, 8 to 15 percent slopes	Very limited	Palmyra 90% Filtering capacity Slope Droughty Too acid
130A	Farmington loam, 0 to 3 percent slopes	Very limited	Farmington 90% Depth to bedrock Droughty Runoff Too acid Galoo 5% Depth to bedrock Droughty Slow water movement Runoff Nuhi 5% Depth to saturated zone Slow water movement Leaching Depth to bedrock Droughty
130B	Farmington loam, 3 to 8 percent slopes	Very limited	Farmington 90% Depth to bedrock Droughty Runoff Too acid Galoo 5% Depth to bedrock Droughty Slow water movement Runoff Nuhi 5% Depth to saturated zone Slow water movement Leaching Depth to bedrock Droughty

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
132A	Galoo loam, 0 to 3 percent slopes, rocky	Very limited	Galoo 95% Depth to bedrock Droughty Slow water movement Runoff Nuhi 4% Depth to saturated zone Slow water movement Leaching Depth to bedrock Droughty
132B	Galoo loam, 3 to 8 percent slopes, rocky	Very limited	Galoo 95% Depth to bedrock Droughty Slow water movement Runoff Nuhi 4% Depth to saturated zone Slow water movement Leaching Depth to bedrock Droughty
134A	Camillus silt loam, 0 to 3 percent slopes	Very limited	Camillus 95% Slow water movement Depth to bedrock Droughty Angola 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff
134B	Camillus silt loam, 3 to 8 percent slopes	Very limited	Camillus 95% Slow water movement Depth to bedrock Droughty Angola 5% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff
151C	Willdin-Norchip complex, 3 to 15 percent slopes	Very limited	Willdin 60% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Norchip 38% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Palms, undrained 2% Ponding Depth to saturated zone Leaching



# Manure and Food-Processing Waste

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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% Too acid Cadosia 5% Cobble content Too acid
152C	Valois gravelly loam, 8 to 15 percent slopes	Somewhat limited	Valois 85% Slope Too acid Cadosia 5% Slope Cobble content Too acid
152D	Valois gravelly loam, 15 to 25 percent slopes	Very limited	Valois 85% Slope Too acid Cadosia 6% Slope Cobble content Too acid Mardin 6% Slope Slow water movement Depth to saturated zone Dense layer Droughty Volusia 3% Slow water movement Depth to saturated zone Dense layer Droughty Slope
152E	Valois gravelly loam, 25 to 35 percent slopes	Very limited	Valois 85% Slope Too acid Cadosia 6% Slope Cobble content Too acid Mardin 6% Slope Slow water movement Depth to saturated zone Dense layer Droughty Towerville, extremely stony 3% Slope Slow water movement Depth to saturated zone Large stones Depth to bedrock
153B	Valois gravelly loam, cool, 3 to 8 percent slopes	Somewhat limited	Valois, cool 85% Too acid Rockriff 5% Too acid Cobble content

# Manure and Food-Processing Waste

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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	Somewhat limited	Valois, cool 85% Slope Too acid Rockrift 5% Slope Too acid Cobble content
153D	Valois gravelly loam, cool, 15 to 25 percent slopes	Very limited	Valois, cool 85% Slope Too acid Rockrift 6% Slope Too acid Cobble content Willdin 6% Slope Slow water movement Depth to saturated zone Dense layer Droughty Ontusia 3% Slow water movement Depth to saturated zone Dense layer Droughty Slope
153E	Valois gravelly loam, cool, 25 to 35 percent slopes	Very limited	Valois, cool 85% Slope Too acid Rockrift 6% Slope Too acid Cobble content Willdin 6% Slope Slow water movement Depth to saturated zone Dense layer Droughty Ischua 3% Slope Slow water movement Depth to saturated zone Droughty Depth to bedrock

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
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% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Lewbath 5% Slow water movement Depth to saturated zone Slope Too acid Droughty Middlebrook 5% Slow water movement Depth to saturated zone Dense layer Droughty Leaching Ontusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff
162C	Willdin channery silt loam, 8 to 15 percent slopes	Very limited	Willdin 85% Slow water movement Depth to saturated zone Dense layer Droughty Slope Ontusia 6% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Lewbath 6% Slope Slow water movement Depth to saturated zone Too acid Droughty Middlebrook 3% Slow water movement Depth to saturated zone Dense layer Droughty Slope

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition

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 Slow water movement Depth to saturated zone Dense layer Droughty Lewbath 10% Slope Slow water movement Depth to saturated zone Too acid Droughty Mongaup 5% Slope Droughty Too acid Depth to bedrock Ontusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Slope
168A	Ontusia channery silt loam, 0 to 3 percent slopes	Very limited	Ontusia 88% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Willdin 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Norchip 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Greter 2% Slow water movement Depth to saturated zone Depth to bedrock Droughty Leaching

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171C	Lordstown-Manlius-Towerville complex, 8 to 15 percent slopes, very stony	Very limited	<p>Towerville, very stony 20%</p> <ul style="list-style-type: none"> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Depth to bedrock</li> <li>Droughty</li> <li>Cobble content</li> </ul> <p>Manlius, very stony 20%</p> <ul style="list-style-type: none"> <li>Droughty</li> <li>Slope</li> <li>Large stones</li> <li>Depth to bedrock</li> <li>Cobble content</li> </ul> <p>Mardin, very stony 5%</p> <ul style="list-style-type: none"> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Dense layer</li> <li>Droughty</li> <li>Slope</li> </ul> <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> <li>Droughty</li> <li>Depth to bedrock</li> <li>Slope</li> <li>Too acid</li> <li>Large stones</li> </ul>
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"> <li>Slope</li> <li>Droughty</li> <li>Too acid</li> <li>Large stones</li> <li>Depth to bedrock</li> </ul> <p>Manlius, very stony 20%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Droughty</li> <li>Depth to bedrock</li> <li>Cobble content</li> <li>Too acid</li> </ul> <p>Towerville, very stony 20%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Depth to bedrock</li> <li>Droughty</li> </ul> <p>Cadosia, very stony 10%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Too acid</li> <li>Large stones</li> <li>Cobble content</li> </ul> <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Droughty</li> <li>Depth to bedrock</li> <li>Too acid</li> <li>Runoff</li> </ul> <p>Mardin 5%</p> <ul style="list-style-type: none"> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Dense layer</li> <li>Droughty</li> <li>Slope</li> </ul>

# Manure and Food-Processing Waste

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
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"> <li>Slope</li> <li>Large stones</li> <li>Droughty</li> <li>Too acid</li> <li>Depth to bedrock</li> </ul> <p>Towerville, extremely stony 20%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Large stones</li> <li>Depth to bedrock</li> </ul> <p>Manlius, extremely stony 20%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Large stones</li> <li>Droughty</li> <li>Depth to bedrock</li> <li>Cobble content</li> </ul> <p>Cadosia, extremely stony 10%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Large stones</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Droughty</li> <li>Depth to bedrock</li> <li>Too acid</li> <li>Runoff</li> </ul> <p>Mardin, extremely stony 5%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Dense layer</li> <li>Large stones</li> </ul>

# Manure and Food-Processing Waste

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
171F	Lordstown-Manlius-Towerville complex, 35 to 80 percent slopes, extremely stony	Very limited	Lordstown, extremely stony 40% Slope Large stones Droughty Too acid Depth to bedrock Towerville, extremely stony 20% Slope Slow water movement Depth to saturated zone Large stones Depth to bedrock Manlius, extremely stony 20% Slope Large stones Droughty Depth to bedrock Cobble content Arnot, extremely stony 10% Slope Droughty Large stones Depth to bedrock Too acid Cadosia, extremely stony 10% Slope Large stones Too acid Cobble content
177A	Norchip silt loam, 0 to 3 percent slopes	Very limited	Norchip 85% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Norchip, very poorly drained 10% Slow water movement Ponding Depth to saturated zone Dense layer Droughty Ontusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Runoff



# Manure and Food-Processing Waste

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
177B	Norchip silt loam, 3 to 8 percent slopes	Very limited	Norchip 85% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Norchip, very poorly drained 10% Slow water movement Ponding Depth to saturated zone Dense layer Droughty Ontusia 5% Slow water movement Depth to saturated zone Dense layer Droughty Slope
181B	Mongaup-Ischua complex, 3 to 8 percent slopes	Somewhat limited	Mongaup 45% Droughty Depth to bedrock Too acid Cobble content Rockrift 10% Too acid Cobble content
181C	Mongaup-Ischua complex, 8 to 15 percent slopes	Somewhat limited	Mongaup 45% Droughty Depth to bedrock Slope Too acid Cobble content Rockrift 10% Slope Too acid Cobble content

# Manure and Food-Processing Waste

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
181D	Mongaup-Ischua complex, 15 to 25 percent slopes, very stony	Very limited	<p>Mongaup, very stony 45%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Droughty</li> <li>Depth to bedrock</li> <li>Large stones</li> <li>Too acid</li> </ul> <p>Ischua, very stony 40%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Droughty</li> <li>Depth to bedrock</li> </ul> <p>Rockrift 10%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Willdin 3%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Dense layer</li> <li>Droughty</li> </ul> <p>Greter 2%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Depth to bedrock</li> <li>Droughty</li> </ul>
181E	Mongaup-Ischua complex, 25 to 35 percent slopes, extremely stony	Very limited	<p>Mongaup, extremely stony 45%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Large stones</li> <li>Droughty</li> <li>Depth to bedrock</li> <li>Too acid</li> </ul> <p>Ischua, extremely stony 40%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Large stones</li> <li>Droughty</li> </ul> <p>Rockrift 10%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Willdin 3%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Dense layer</li> <li>Droughty</li> </ul> <p>Greter 2%</p> <ul style="list-style-type: none"> <li>Slope</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Depth to bedrock</li> <li>Droughty</li> </ul>

# Manure and Food-Processing Waste

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
182B	Mongaup channery loam, 3 to 8 percent slopes	Very limited	Mongaup 75% Droughty Depth to bedrock Cobble content Willdin 8% Slow water movement Depth to saturated zone Dense layer Droughty Runoff Ischua 5% Slow water movement Depth to saturated zone Droughty Depth to bedrock Cobble content Greter 2% Slow water movement Depth to saturated zone Depth to bedrock Droughty Leaching
182C	Mongaup channery loam, 8 to 15 percent slopes	Very limited	Mongaup 75% Droughty Depth to bedrock Slope Cobble content Willdin 8% Slow water movement Depth to saturated zone Dense layer Droughty Slope Ischua 5% Slow water movement Depth to saturated zone Droughty Depth to bedrock Slope Greter 2% Slow water movement Depth to saturated zone Depth to bedrock Slope Droughty

# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
201A	Lima loam, 0 to 3 percent slopes	Very limited	Lima 85% Depth to saturated zone Leaching Kendaia 3% Depth to saturated zone Leaching Too acid Appleton 3% Depth to saturated zone Leaching Cazenovia 2% Slow water movement Depth to saturated zone Dense layer Leaching Lyons 2% Depth to saturated zone Slow water movement Leaching
201B	Lima loam, 3 to 8 percent slopes	Very limited	Lima 85% Depth to saturated zone Leaching Kendaia 3% Depth to saturated zone Leaching Too acid Appleton 3% Depth to saturated zone Leaching Cazenovia 2% Slow water movement Depth to saturated zone Dense layer Leaching Lyons 1% Depth to saturated zone Slow water movement Leaching
201C	Lima loam, 8 to 15 percent slopes	Very limited	Lima 85% Depth to saturated zone Leaching Slope Appleton 3% Depth to saturated zone Leaching Slope Kendaia 3% Depth to saturated zone Leaching Slope Too acid Cazenovia 2% Slow water movement Depth to saturated zone Dense layer Leaching Slope

# Manure and Food-Processing Waste

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
204A	Lima loam, 0 to 3 percent slopes, lower clay surface	Very limited	Lima 85% Depth to saturated zone Leaching Appleton 3% Depth to saturated zone Leaching Kendaia 3% Depth to saturated zone Leaching Too acid Lyons 2% Depth to saturated zone Slow water movement Leaching Cazenovia 2% Slow water movement Depth to saturated zone Dense layer Leaching
204B	Lima loam, 3 to 8 percent slopes, lower clay surface	Very limited	Lima 85% Depth to saturated zone Leaching Appleton 3% Depth to saturated zone Leaching Kendaia 3% Depth to saturated zone Leaching Too acid Cazenovia 2% Slow water movement Depth to saturated zone Dense layer Leaching Lyons 1% Depth to saturated zone Slow water movement Leaching
210A	Phelps gravelly silt loam, 0 to 3 percent slopes	Very limited	Phelps 85% Depth to saturated zone Leaching Droughty Galen 10% Depth to saturated zone Leaching Too acid Homer 5% Filtering capacity Depth to saturated zone Leaching

# Manure and Food-Processing Waste

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
210B	Phelps gravelly silt loam, 3 to 8 percent slopes	Very limited	Phelps 85% Depth to saturated zone Leaching Droughty Galen 10% Depth to saturated zone Leaching Too acid Homer 5% Filtering capacity Depth to saturated zone Leaching
212A	Nuhi silt loam, 0 to 3 percent slopes	Very limited	Nuhi 85% Depth to saturated zone Slow water movement Leaching Depth to bedrock Droughty Farmington 10% Depth to bedrock Droughty Runoff Too acid Nuhi, poorly drained 5% Depth to saturated zone Slow water movement Leaching Depth to bedrock Droughty
240B	Aurora-Angola silt loams, 3 to 8 percent slopes	Very limited	Aurora 60% Slow water movement Depth to saturated zone Runoff Depth to bedrock Angola 30% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff Danley 5% Slow water movement Depth to saturated zone Leaching Too acid Darlen 5% Slow water movement Depth to saturated zone Leaching Too acid

# Manure and Food-Processing Waste

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
240C	Aurora-Angola silt loams, 8 to 15 percent slopes	Very limited	Aurora 60% Slow water movement Depth to saturated zone Slope Runoff Depth to bedrock Angola 30% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff Darien 5% Slow water movement Depth to saturated zone Slope Leaching Too acid Danley 5% Slow water movement Depth to saturated zone Slope Leaching Too acid
240D	Aurora-Angola silt loams, 15 to 25 percent slopes	Very limited	Aurora 60% Slope Slow water movement Depth to saturated zone Runoff Depth to bedrock Angola 30% Slope Slow water movement Depth to saturated zone Depth to bedrock Droughty Darien 5% Slope Slow water movement Depth to saturated zone Leaching Too acid Danley 5% Slope Slow water movement Depth to saturated zone Leaching Too acid

# Manure and Food-Processing Waste

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
241B	Aurora silt loam, 3 to 8 percent slopes	Very limited	Aurora 85% Slow water movement Depth to saturated zone Runoff Depth to bedrock Angola 10% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff Danley 5% Slow water movement Depth to saturated zone Leaching Too acid
241C	Aurora silt loam, 8 to 15 percent slopes	Very limited	Aurora 85% Slow water movement Depth to saturated zone Slope Runoff Depth to bedrock Angola 8% Slow water movement Depth to saturated zone Depth to bedrock Droughty Slope Danley 7% Slow water movement Depth to saturated zone Slope Leaching Too acid
241D	Aurora silt loam, 15 to 25 percent slopes	Very limited	Aurora 85% Slope Slow water movement Depth to saturated zone Runoff Depth to bedrock Danley 10% Slope Slow water movement Depth to saturated zone Leaching Too acid Angola 5% Slope Slow water movement Depth to saturated zone Depth to bedrock Droughty



# Manure and Food-Processing Waste

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
255B	Cazenovia silt loam, 3 to 8 percent slopes	Very limited	Cazenovia 85% Slow water movement Depth to saturated zone Leaching Ovid 10% Slow water movement Depth to saturated zone Leaching Cayuga 5% Slow water movement Depth to saturated zone Leaching
255C	Cazenovia silt loam, 8 to 15 percent slopes	Very limited	Cazenovia 85% Slow water movement Depth to saturated zone Slope Leaching Cayuga 8% Slow water movement Depth to saturated zone Slope Leaching Ovid 7% Slow water movement Depth to saturated zone Slope Leaching
255D	Cazenovia silt loam, 15 to 25 percent slopes	Very limited	Cazenovia 85% Slope Slow water movement Depth to saturated zone Leaching Cayuga 10% Slope Slow water movement Depth to saturated zone Leaching Ovid 5% Slow water movement Depth to saturated zone Leaching Slope
260B	Cayuga silt loam, 3 to 8 percent slopes	Very limited	Cayuga 85% Slow water movement Depth to saturated zone Leaching Schoharie 10% Slow water movement Depth to saturated zone Leaching Odessa 5% Slow water movement Depth to saturated zone Leaching

# Manure and Food-Processing Waste

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
260C	Cayuga silt loam, 8 to 15 percent slopes	Very limited	Cayuga 85% Slow water movement Depth to saturated zone Leaching Slope Schoharie 10% Slow water movement Depth to saturated zone Leaching Slope Odessa 5% Slow water movement Depth to saturated zone Leaching
260D	Cayuga silt loam, 15 to 25 percent slopes	Very limited	Cayuga 85% Slope Slow water movement Depth to saturated zone Leaching Lansing 10% Slope Too acid Schoharie 5% Slope Slow water movement Depth to saturated zone Leaching
304A	Kendaia loam, 0 to 3 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Leaching Too acid Lima 6% Depth to saturated zone Leaching Lyons 5% Depth to saturated zone Slow water movement Leaching Ovid 2% Slow water movement Depth to saturated zone Leaching Churchville 2% Slow water movement Depth to saturated zone Leaching

# Manure and Food-Processing Waste

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
304B	Kendaia loam, 3 to 8 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Leaching Too acid Lima 7% Depth to saturated zone Leaching Lyons 4% Depth to saturated zone Slow water movement Leaching Churchville 2% Slow water movement Depth to saturated zone Leaching Ovid 2% Slow water movement Depth to saturated zone Leaching
342A	Angola silt loam, 0 to 3 percent slopes	Very limited	Angola 90% Slow water movement Depth to saturated zone Depth to bedrock Droughty Runoff Darlen 5% Slow water movement Depth to saturated zone Leaching Too acid Ilion 5% Slow water movement Depth to saturated zone Leaching Too acid
356A	Ovid silt loam, 0 to 3 percent slopes	Very limited	Ovid 85% Slow water movement Depth to saturated zone Leaching Odessa 10% Slow water movement Depth to saturated zone Leaching Lakemont 5% Slow water movement Depth to saturated zone Leaching Too acid
356B	Ovid silt loam, 3 to 8 percent slopes	Very limited	Ovid 85% Slow water movement Depth to saturated zone Leaching Odessa 10% Slow water movement Depth to saturated zone Leaching Lakemont 5% Slow water movement Depth to saturated zone Leaching Too acid

# Manure and Food-Processing Waste

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
357B	Ovid silty clay loam, 3 to 8 percent slopes	Very limited	Ovid 85% Slow water movement Depth to saturated zone Leaching Odessa 10% Slow water movement Depth to saturated zone Leaching Lakemont 5% Slow water movement Depth to saturated zone Leaching Too acid
357C	Ovid silty clay loam, 8 to 15 percent slopes	Very limited	Ovid 85% Slow water movement Depth to saturated zone Leaching Slope Odessa 10% Slow water movement Depth to saturated zone Leaching Lakemont 5% Slow water movement Depth to saturated zone Leaching Too acid
400A	Udorthents, loamy, 0 to 3 percent slopes	Somewhat limited	Udorthents, loamy 80% Leaching Droughty Ontario 5% Too acid
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%

# Manure and Food-Processing Waste

## Rating Options

Attribute Name: Manure and Food-Processing Waste

The application of manure and food-processing waste not only disposes of waste material but also can improve crop production by increasing the supply of nutrients in the soils where the material is applied. Manure is the excrement of livestock and poultry, and food-processing waste is damaged fruit and vegetables and the peelings, stems, leaves, pits, and soil particles removed in food preparation. The manure and food-processing waste are solid, slurry, or liquid. Their nitrogen content varies. A high content of nitrogen limits the application rate. Toxic or otherwise dangerous wastes, such as those mixed with the lye used in food processing, are not considered in the ratings.

The ratings are based on the soil properties that affect absorption, plant growth, microbial activity, erodibility, the rate at which the waste is applied, and the method by which the waste is applied. The properties that affect absorption include saturated hydraulic conductivity (Ksat), depth to a water table, ponding, the sodium adsorption ratio, depth to bedrock or a cemented pan, and available water capacity. The properties that affect plant growth and microbial activity include reaction, the sodium adsorption ratio, salinity, and bulk density. The wind erodibility group, soil erosion factor K, and slope are considered in estimating the likelihood that wind erosion or water erosion will transport the waste material from the application site. Stones, cobbles, a water table, ponding, and flooding can hinder the application of waste. Permanently frozen soils are unsuitable for waste treatment.

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 agricultural waste management. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

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

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

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

Aggregation Method: Dominant Condition

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

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

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

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

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

Tie-break Rule: Higher

## Manure and Food-Processing Waste

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.