

# Major Land Resource Area 140X

## Glaciated Allegheny Plateau and Catskill Mountains

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### Ecological site keys

#### MLRA 140 PES Key (Nested)

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##### 1a. Frigid soils temperature class

- 2a. Soils poorly to very poorly drained [Torull, Norchip, Suny] ... F140XY001NY – Frigid Till Depressions
- 2b. Soils somewhat excessively to somewhat poorly drained
  - 3a. Soils shallow to bedrock or shallow to moderately deep to a fragipan horizon
    - 4a. Soils shallow to bedrock
      - 5a. Soils somewhat excessively drained
        - 6a. Slopes > 15% [Halcott, Hawksnest, Wasnot]
        - 6b. Slopes < 15% [Halcott, Hawksnest, Wasnot] ... F140XY003NY – Cold Shallow Till Uplands
      - 5b. Soils somewhat poorly to poorly drained [Tor] ... F140XY004NY – Frigid Shallow Moist Till
    - 4b. Soils shallow to moderately deep to a fragipan horizon
      - 7a. Soils well drained
        - 8a. Slopes > 15% [Lewbath, Lewbeach] ... F140XY005NY – Frigid Steep Well Drained Dense Till
        - 8b. Slopes < 15% [Lewbath, Lewbeach] ... F140XY006NY – Frigid Well Drained Dense Till
      - 7b. Soils moderately well to somewhat poorly drained [Onteora, Ontusia, Wildin, Willowemoc, Napoli, Yorkshire] ... F140XY007NY – Frigid Moist Dense Till
  - 3b. Soils moderately deep to very deep to bedrock
    - 9a. Soils somewhat excessively to well drained
      - 10a. Slopes > 15% [Skytop, Rockrift, Mongaup, Franklinville, Ceres, Vly, Elka] ... F140XY008NY – Frigid Steep Till Uplands
      - 10b. Slopes < 15% [Skytop, Rockrift, Mongaup, Franklinville, Ceres, Vly, Elka] ... F140XY009NY – Frigid Till Uplands
    - 9b. Soils moderately well to somewhat poorly drained [Almond, Salamanca, Middlebrook, Gretor, Hornellsville, Ischua] ... F140XY010NY – Frigid Moist Till Uplands

##### 1b. Mesic soil temperature class

- 11a. Soils with organic layer ("O" horizon) ≥ 16" in thickness
  - 12a. Soil reaction class Euic; nutrient rich environment [Catden, Natchaug]
  - 12b. Soil reaction class Dysic; nutrient poor environment [Paupack] ... F140XY012PA – Organic Wetlands
- 11b. Soils without organic layer ("O" horizon) or organic layer < 16" in thickness
  - 13a. Parent material alluvium; landform a floodplain
    - 14a. Soils well drained [Barbour, Deleware, Hamplaine, Tioga, Trestle, Wenonah] ... F140XY013PA – High Floodplain
    - 14b. Soils moderately well to poorly drained
      - 15a. Soils moderately well drained and somewhat poorly drained [Bash, Basher, Deposit, Holderton, Middlebury, Otega, Udfluvants] ... F140XY014NY – Low Floodplain
      - 15b. Soils poorly drained and very poorly drained [Wyalusing, Wayland, Fluvaquents] ...

F140XY015NY – Wet Low Floodplain

13b. Parent material lacustrine, outwash, or till

16a. Soils poorly or very poorly drained [Gleneyre, Atherton, Alden, Allis, Neversink, Norwich, Ashville, Chippewa, Edgemere, Tuller, Rexford poorly-drained] ... F140XY016NY – Mineral Wetlands

16b. Soils excessively to somewhat poorly drained

17a. Parent material lacustrine

18a. Soils well drained [Unadilla] ... F140XY017NY – Well Drained Lake Plain

18b. Soils moderately to somewhat poorly drained [Scio, Tonawanda, Rhinebeck] ...  
F140XY018NY – Moist Lake Plain

17b. Parent material outwash or till

19a. Parent material outwash

20a. Soils shallow to moderately deep to a fragipan horizon [Braceville, Rexford] ...  
F140XY020NY – Dense Outwash

20b. Soils moderately deep to very deep to bedrock; no fragipan horizon

21a. Soils somewhat excessively to well drained [Allard, Chenango, Tunkhannock, Wyoming] ... F140XY021NY – Dry Outwash

21b. Soils moderately to somewhat poorly drained [Castile, Olean, Red Hook, Oramel] ...  
F140XY022NY – Moist Outwash

19b. Parent material till

22a. Soils shallow to bedrock or shallow to moderately deep to a fragipan horizon

23a. Soils shallow (<20 inches) to bedrock

24a. Soils nutrient rich; higher base saturation [Farmington] ... F140XY029NY – Rich  
Shallow Till Upland

24b. Soils nutrient poor; lower base saturation [Arnot] ... F140XY023NY – Shallow Till  
Uplands

23b. Soils shallow to moderately deep to a fragipan horizon

25a. Soils moderately to somewhat poorly drained [Swartswood, Rushford, Langford, Mardin, Erie, Scriba, Shohola, Wiscoy, Marilla, Canaseraga, Dalton, Wellsboro, Wurtsboro, Morris] ... F140XY024NY – Moist Dense Till

25b. Soils well-drained [Lackawanna, Wallpack, Bath, Venango, Wooster, Swartswood well drained, and Mardin well drained] ... F140XY030NY – Well Drained  
Dense Till

22b. Soils moderately deep to very deep to bedrock

26a. Soils nutrient rich; higher base saturation [Nunda, Burdett] ... F140XY025NY – Rich  
Till Uplands

26b. Soils nutrient poor; lower base saturation

27a. Soils somewhat excessively drained [Oquaga] ... F140XY026PA – Dry Till  
Uplands

27b. Soils well drained to somewhat poorly drained

28a. Soils well drained [Lordstown, Maplecrest, Cadosia, Chadokoin, Valois, Oquaga, Manilus] ... F140XY027NY – Well Drained Till Uplands

28b. Soils moderately to somewhat poorly drained [Schuyler, Towerville, Orpark, Fremont, Greene, Hornell, Kanona, Derb, Volusia, Angola, Busti, Conesus] ...  
F140XY028NY – Moist Till Upland