

March 19, 2020 DRAFT

Gardiner Natural Resources Inventory Map Outline

1. Base Map (this info will be on all maps in the series)
 - Municipal boundaries
 - Roads
 - Streams and waterbodies
 - Wetlands
 - Digital elevation model hillshade to show topography
2. Aerial View
 - 2016 Orthoimagery

Climate Section

3. Natural Areas for Climate Adaptation
 - TNC Resiliency Data

Topography and Geology Section

4. Topography
 - 20-ft contours
 5. Steep Slopes
 - Slopes derived from 10-m digital elevation model, symbolized by intervals: 0-8%, 8-15%, 15-25%, >25%
 6. Bedrock Geology
 - NY State Museum bedrock geology map, 1:250,000
 7. Surficial Geology and Glacial Deposits
 - NY State Museum surficial geology map, 1:250,000
- Soils
- No map – refer to Web Soil Survey, and to soil data in other NRI maps (wetlands, agriculture)

Water Section

8. Aquifer Recharge Areas
 - Gardiner aquifer study data
 - Primary recharge area
 - Population center recharge area
 - Seasonal recharge area

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9. Streams and Watersheds
 - USGS HUC-12 watershed boundaries
 - 535-foot buffer on Walkill and Shawangunk Kill
 - 330-foot buffer on Coxing Kill, Kleine Kill, Mara Kill, Palmaghatt Kill, Platte Kill
 - 100-foot buffer around unnamed perennial streams in town
 - 100-foot buffer on open water areas
10. Water Quality Classifications
 - Include priority waterbodies list summary in report
11. Floodplains and Riparian Areas
 - FEMA special flood hazard areas – 100 & 500 year flood zone
 - Riparian buffers (NYNHP)
12. Stream Habitats
 - Trout and trout-spawning waters (DEC Water Quality Standards)
 - Sensitive coldwater streams (brook trout)
 - Stream habitat for migratory fish
 - Mapped culverts and dams
 - Riparian buffers
13. Wetlands
 - Map A: DEC wetlands, NWI wetlands, wetland soils, potential vernal pools
 - 300' buffer on mapped wetlands
 - 500' buffer on vernal pools (from Sisson habitat map)
 - Map B: Sisson wetlands

Habitats Section

14. Regional Habitat Context
 - Significant Biodiversity Areas
 - Important Bird Areas
 - Overlay of matrix forests/linkage zones
15. Habitats
 - Sisson map
16. Priority Habitats (based on OSP criteria)
 - Dwarf Pine Ridge and 1,500' buffer
 - Cliff and Talus and 1,000' buffer
 - Pitch pine-oaks heath-rocky summit >100 acres
 - Chestnut Oak Forest >1,000 acres

Comment [HIB(1)]: Most likely just refer to original map.

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- All forest >100 acres
- Floodplain forest
- Open fields and meadows >100 acres

17. Important Biodiversity Areas

- Known Important Areas for Rare Animals and Rare Plants

18. Large Forests

- New Hudson Valley Forest Condition Index
- Core forest

19. Intact Habitat Cores (Ulster County)

Land Use Section

20. Agricultural Resources

- Prime Farmland Soils
- County Agricultural Districts
- Agricultural Land Use (based on assessor data)
- Farm Size and Farmland Core

21. Conservation Land

- Preserved in Gardiner map
- Data from Mohonk Preserve and WVLT
- NYPAD 2018 for areas outside of Gardiner

22. Recreation

- Public access conservation areas
- Boat launches
- Public fishing areas?

23. Scenic Resources

- Scenic Byway
- OSP scenic roads
 - Class 1 – 1000' buffer
 - Class 2 – 500' buffer
 - Class 3 – 250' buffer