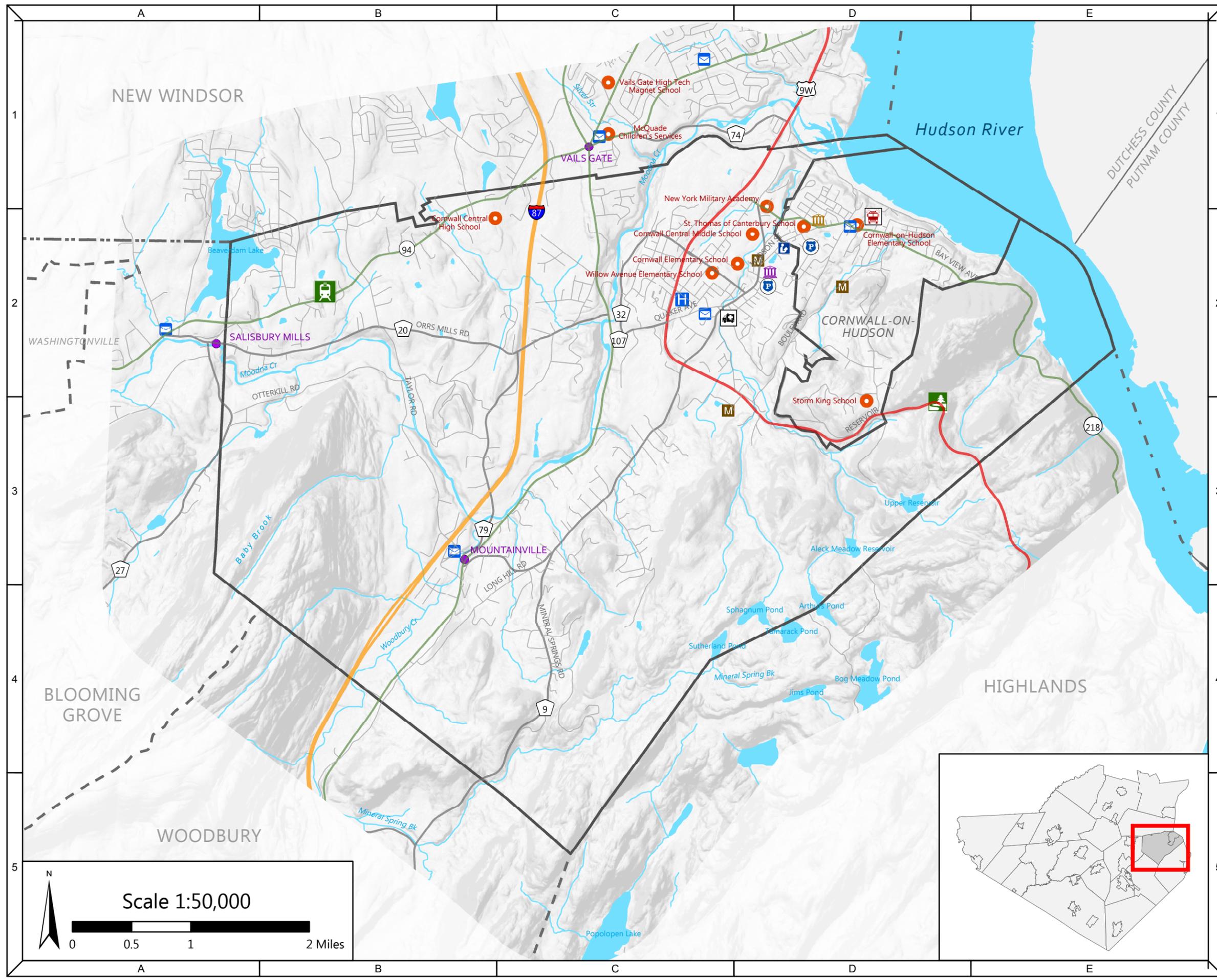


NATURAL RESOURCES INVENTORY

Base Map



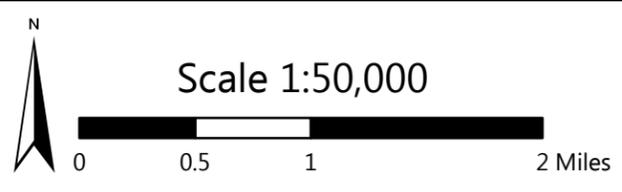
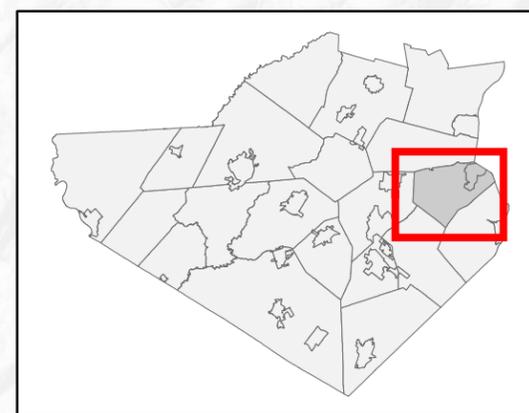
- |                           |                       |
|---------------------------|-----------------------|
| Town and Village Boundary | Interstate            |
| Other Municipal Boundary  | Federal Highway       |
| State Route               | County Road           |
| Hamlets                   | Local Road            |
| Water Bodies              | Schools               |
| Streams                   | Town Hall             |
| Police Station            | Village Hall          |
| Firehouse                 | Commuter Rail Station |
| Ambulance Corps           | Hospital              |
| Municipal Court           | Museum                |
| Library                   | Scenic Overlook       |

DATA SOURCES: United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

Creating Natural Resources Inventories (NRIs) in Orange County Communities is a partnership project between OCWA and Cornell University Department of Natural Resources, with funding from the Environmental Protection Fund through the New York State Department of Environmental Conservation Hudson River Estuary Program.

Orange County Department of Planning  
 B. Freiman 6/20/2018

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NATURAL RESOURCES INVENTORY

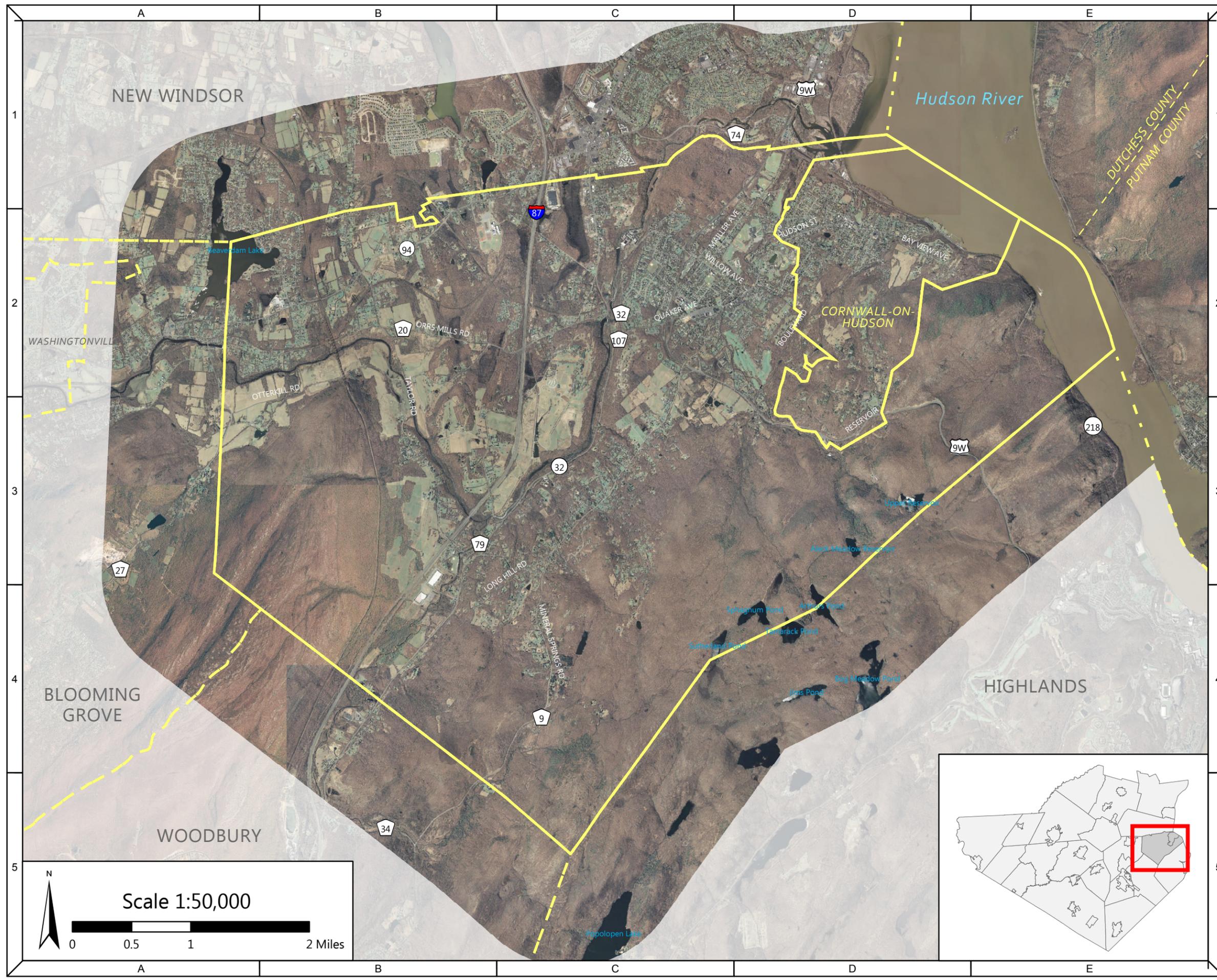
Aerial Imagery  
 2007

**Municipal Boundaries**

-  Town and Village Boundary
-  Other Municipal Boundary

**Roads**

-  Interstate
-  Federal Highway
-  State Route
-  County Road

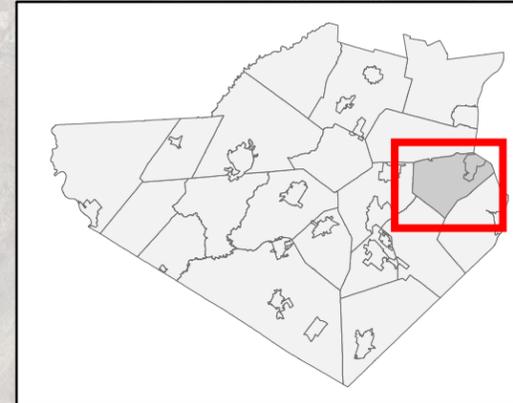
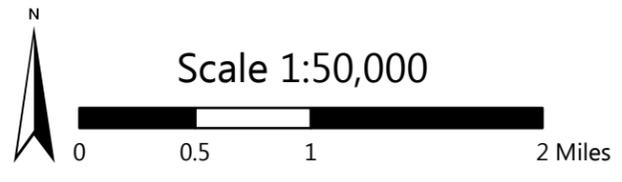


DATA SOURCES: United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018; New York Statewide Digital Orthoimagery Program, 2016

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Orange County Department of Planning  
 B. Freiman 6/20/2018

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NATURAL RESOURCES INVENTORY

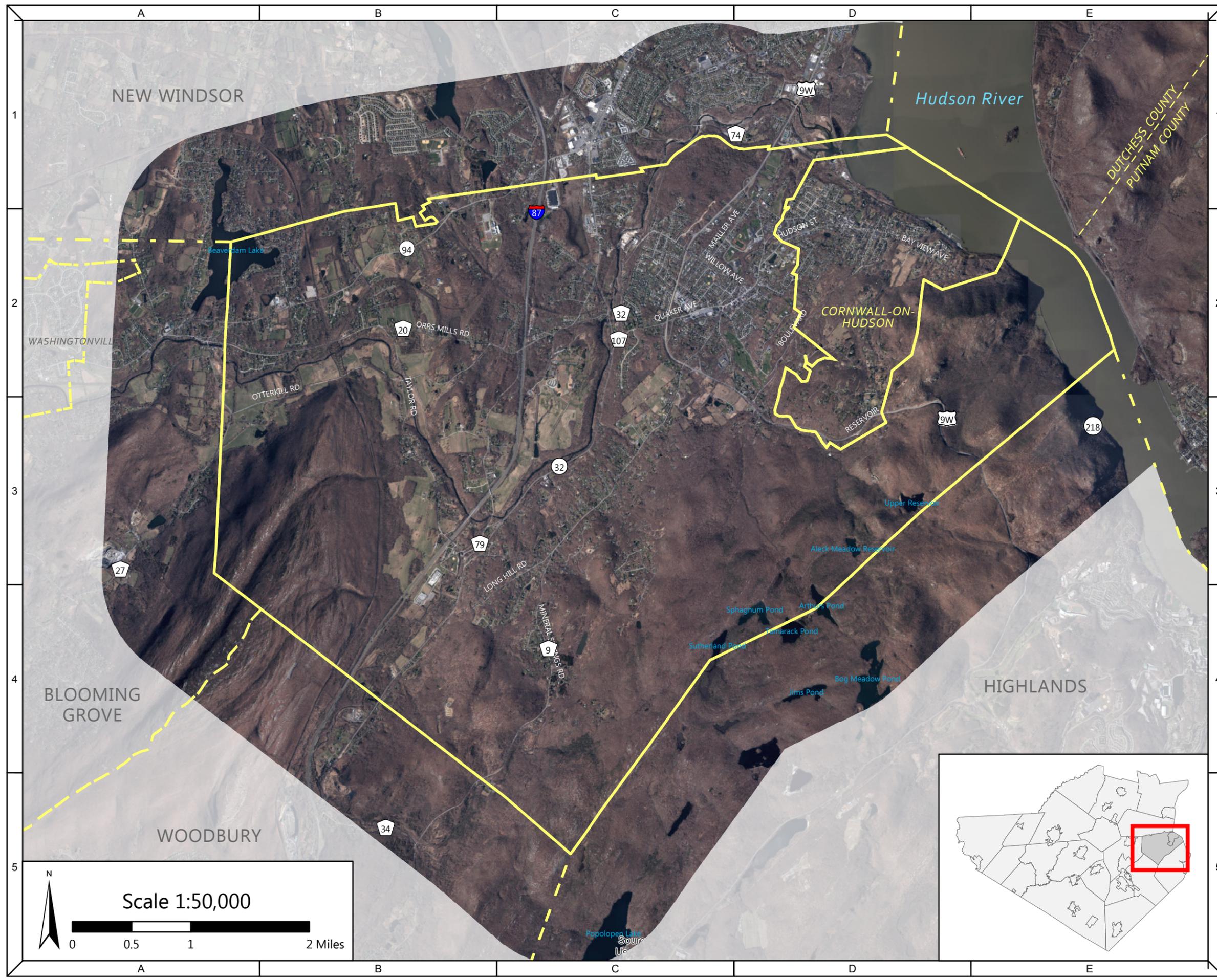
Aerial Imagery  
2016

Municipal Boundaries

- Town and Village Boundary
- Other Municipal Boundary

Roads

- Interstate
- Federal Highway
- State Route
- County Road

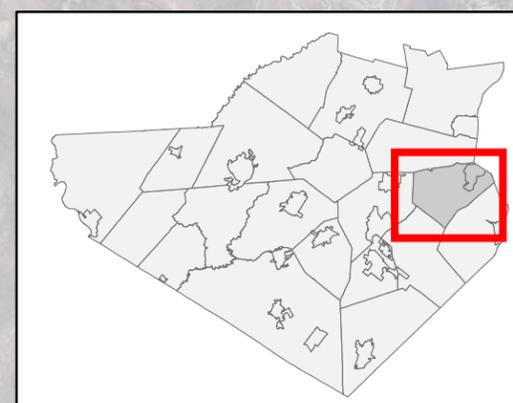
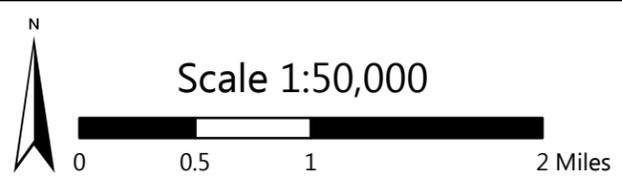


DATA SOURCES: United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018; New York Statewide Digital Orthoimagery Program, 2016

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Orange County Department of Planning  
B. Freiman 6/20/2018

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NATURAL RESOURCES INVENTORY

Historic and Cultural Resources

Historic and Cultural Resources

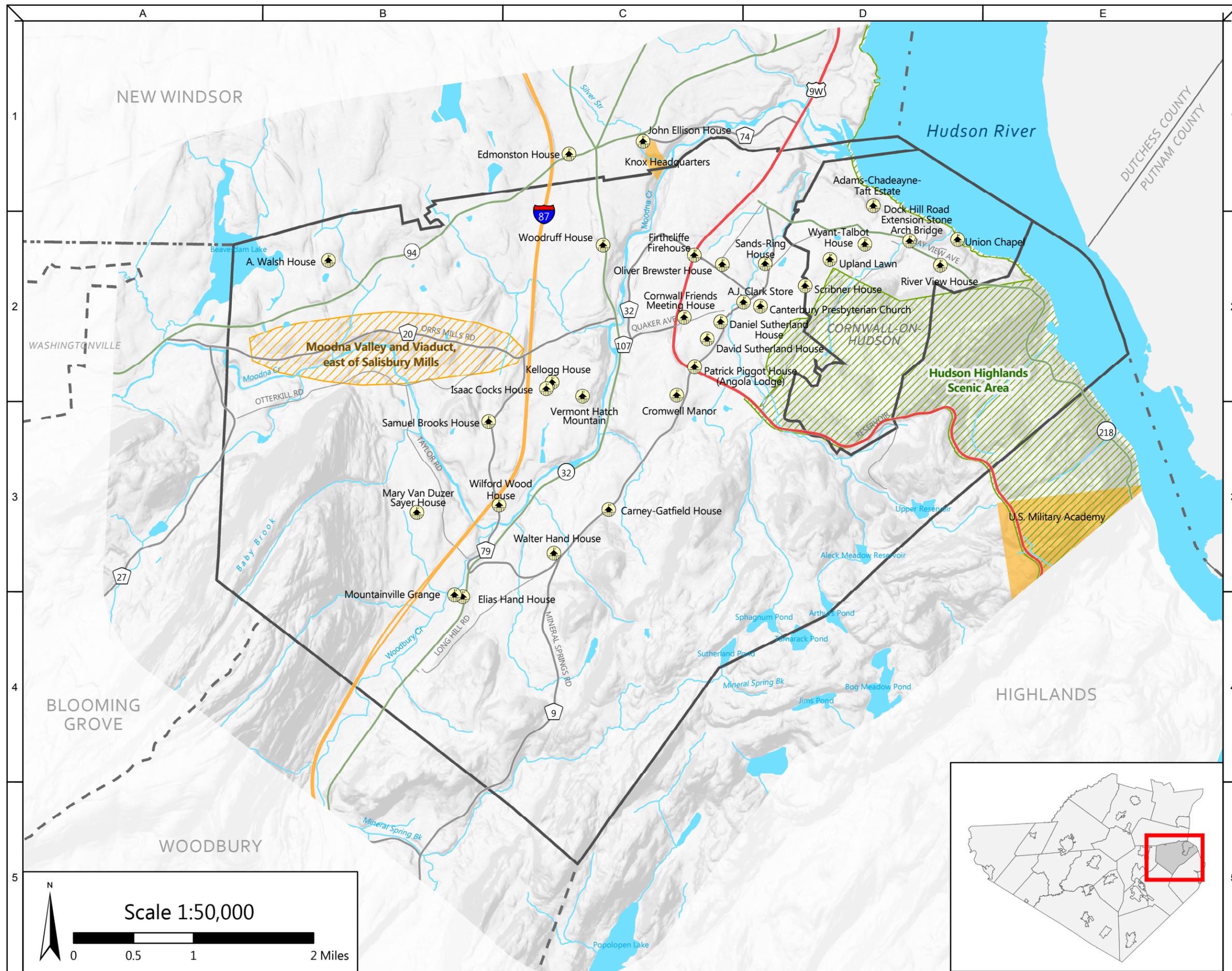
-  Historic Sites
-  Historic Areas
-  Scenic Areas of Countywide Significance
-  Scenic Areas of Statewide Significance

Roads

-  Interstate
-  Federal Highway
-  State Route
-  County Road
-  Local Road

Hydrology

-  Water Bodies
-  Streams



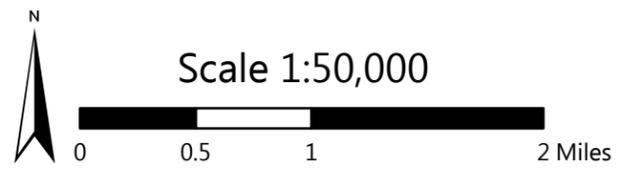
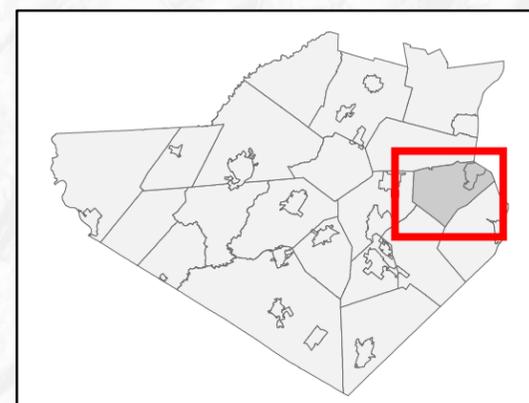
DATA SOURCES: National Register of Historic Places, 2018; New York State Dept. of Transportation, 2017; United States Geological Survey, 2017; New York State Dept. of Environmental Conservation, 2017; Orange County Dept. of Planning, 2018

"The National Register of Historic Places (NRPH) is the official list of the Nation's historic places worthy of preservation. Authorized by the National Historic Preservation Act of 1966, the National Park Service's National Register of Historic Places is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect America's historic and archeological resources."  
- National Register of Historic Places, 2017  
<https://www.nps.gov/nr/>

Scenic Areas of Countywide Significance were identified in the 2004 Orange County Open Space Plan. Scenic Areas of Statewide Significance are areas defined by the New York State DEC that possess unique, highly scenic landscapes accessible to the public and recognized for their outstanding quality.

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Orange County Department of Planning  
B. Freiman 6/18/18  
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NATURAL RESOURCES INVENTORY

Areas of Known Importance

Areas of Known Importance for:

-  Rare Animals
-  Rare Plants
-  Migratory Fish
-  Birds (Audobon Important Bird Areas)

Hydrology

-  Streams
-  Water Bodies

Roads

-  Interstate
-  Federal Highway
-  State Route
-  County Road

DATA SOURCES: New York State Dept. of Environmental Conservation, 2017; New York Natural Heritage Program, 2017; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2017

This map depicts areas of known importance for plant and wildlife habitat in the Town of Cornwall and the Village of Cornwall-on-Hudson in Orange County, NY, based on information from the New York Natural History Program's inventory of rare species.

Important Areas were mapped by the New York Natural Heritage Program and include lands and waters that support the continued presence and quality of known populations of rare animals and rare plants, or of documented examples of rare or high-quality ecological communities. Important Areas include the specific locations where the animals, plants, and/or ecological communities have been observed and also include areas that support the natural ecological processes critical to maintaining the habitats of these rare animal and plant populations, or critical to maintaining these significant communities.

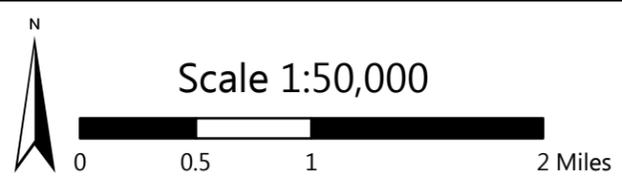
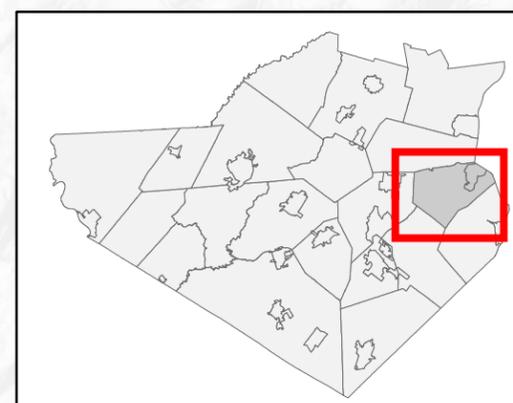
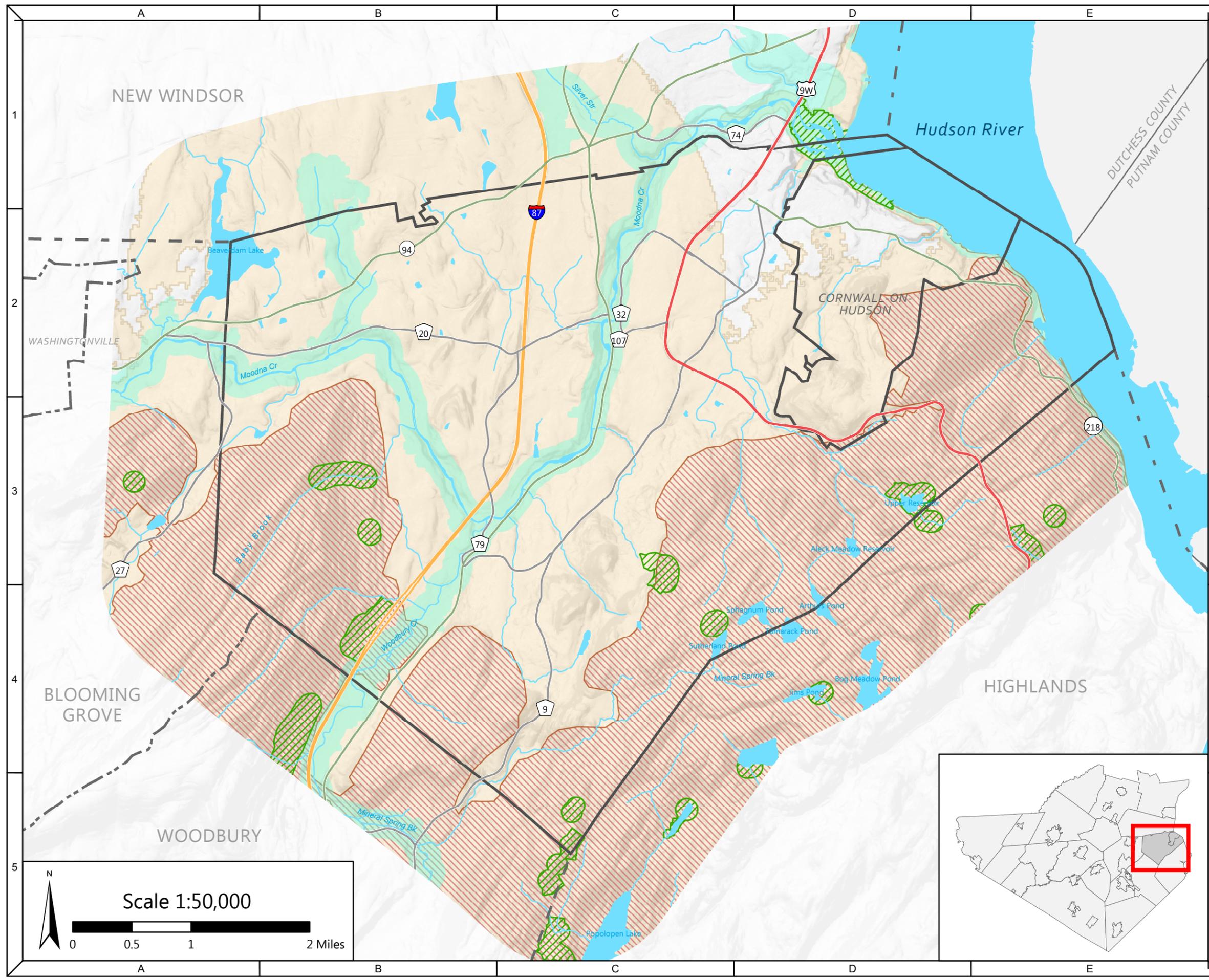
"The Important Bird Area (IBA) Program of Audubon New York, in cooperation with a host of partners, has identified 136 critical bird breeding, migratory stop-over, feeding, and over-wintering areas in the state. Important Bird Areas have been identified throughout New York in all types of habitats, including forests, shrub/scrub, grasslands, freshwater and saltwater wetlands, and bodies of water."  
 - National Audubon Society, 2018

<https://www.audubon.org/important-bird-areas/state/new-york>

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Orange County Department of Planning  
 B. Freiman 6/20/2018

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A B C D E  
 1  
 2  
 3  
 4  
 5  
 A B C D E

**NATURAL RESOURCES INVENTORY**  
**Significant Natural Communities and Biodiversity Areas**

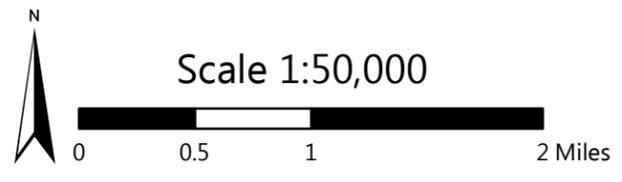
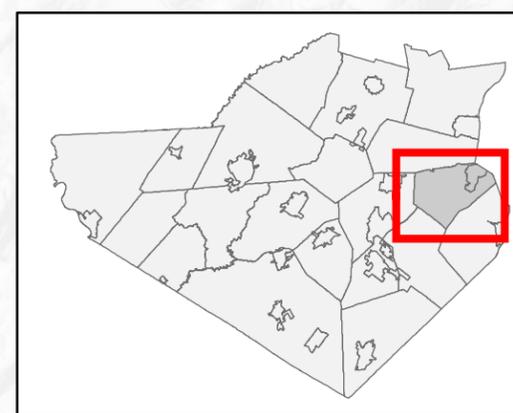
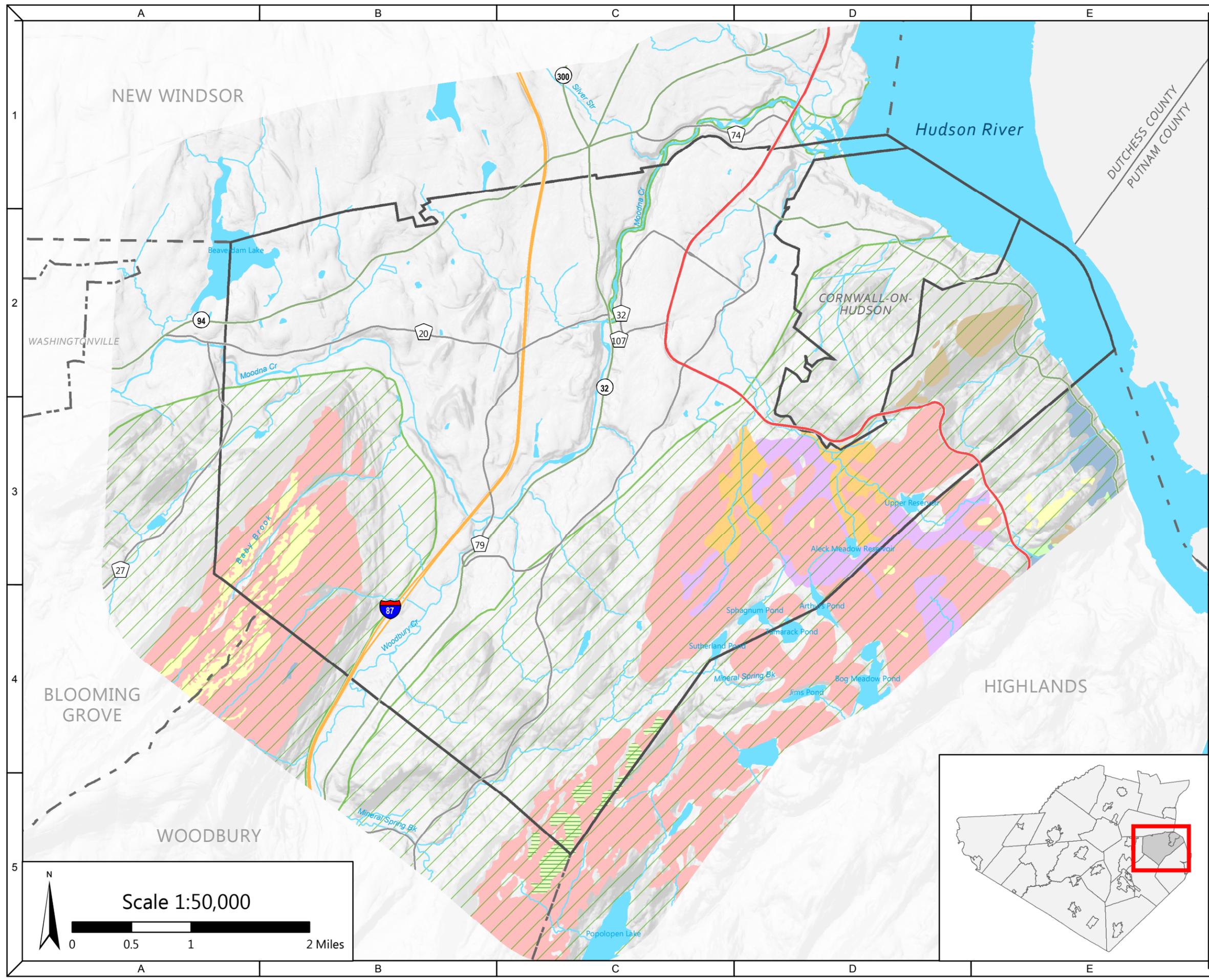
- Significant Natural Communities**
-  Appalachian Oak-Hickory Forest
  -  Acidic Talus Slope Woodland
  -  Oak-Tulip Tree Forest
  -  Chestnut Oak Forest
  -  Hemlock-Northern Hardwood Forest
  -  Pitch Pine-Oak-Heath Rocky Summit
  -  Red Cedar Rocky Summit
  -  Rocky Summit Grassland
-  Hudson Highlands Significant Biodiversity Area
- Roads**
-  Interstate
  -  Federal Highway
  -  State Route
  -  County Road
- Hydrology**
-  Streams
  -  Water Bodies

DATA SOURCES: New York State Dept. of Environmental Conservation; New York Natural Heritage Program; United States Geological Survey; New York State Dept. of Transportation; Orange County Dept. of Planning

Significant Natural Communities are the locations of rare or high-quality wetlands, forests, grasslands, ponds, streams, and other types of habitats, ecosystems, and ecological areas. The NY Natural Heritage Program documents only those locations of natural communities where the community type is rare in New York State; or, for more common community types, where the community at that location is a high-quality example and meets specific, documented criteria for state significance in terms of size, undisturbed and intact condition, and the quality of the surrounding landscape.

Creating Natural Resources Inventories (NRIs) in Orange County Communities is a partnership project between OCWA and Cornell University Department of Natural Resources, with funding from the Environmental Protection Fund through the New York State Department of Environmental Conservation Hudson River Estuary Program.

Cartography by Benjamin Freiman 2/16/2018  
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NATURAL RESOURCES INVENTORY

Forest Patches and Regional  
 Forest Linkage Zones

Forest Patches (acres)

- Stepping Stone Forest (200 - 1999)
- Locally Significant Forest (2000 - 5999)
- Regionally Significant Forest (>6000)

Linkage Zones and Matrix Forest Blocks

- Regional Forest Linkage Zone
- Matrix Forest Blocks

Hydrology

- Water Bodies
- Streams

Roads

- Interstate
- Federal Highway
- State Route
- County Road

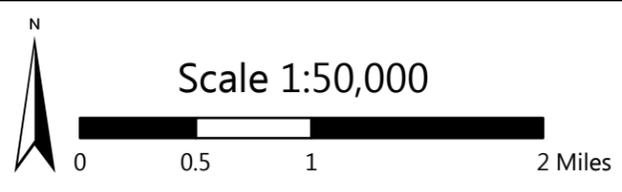
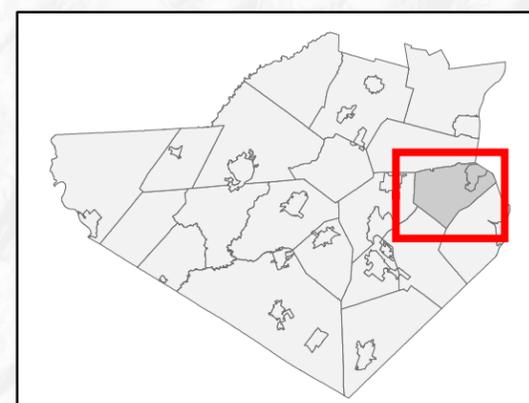
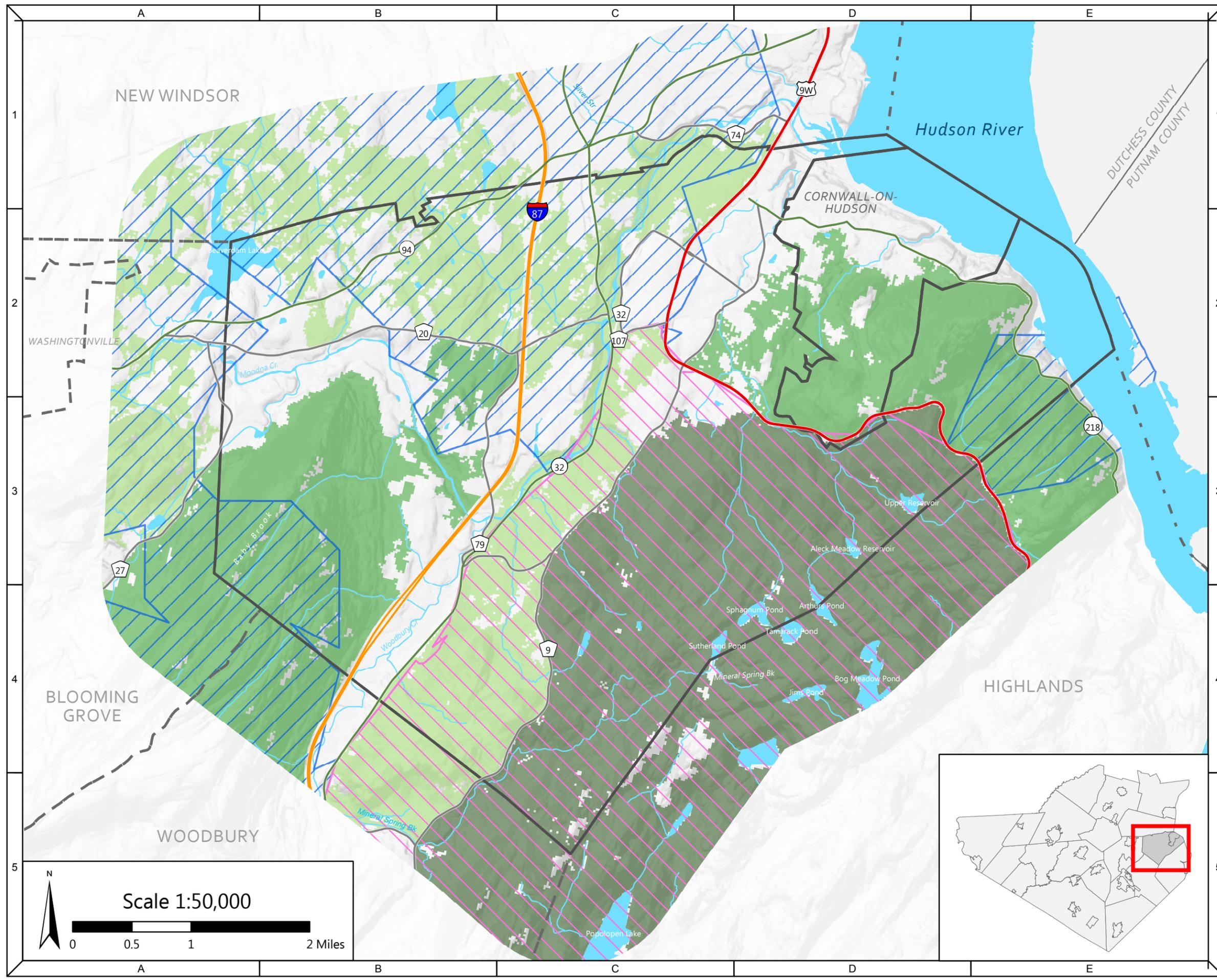
DATA SOURCES: New York State Natural Heritage Program, 2017; New York State Dept. of Environmental Conservation, 2017; National Oceanic and Atmospheric Association Coastal Climate Change Analysis Program, 2016; The Nature Conservancy, 2017; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

This map shows contiguous forested patches of New York State by acreage in the Town of Cornwall and the Village of Cornwall-on-Hudson in Orange County. Patches were delineated by Cornell University and NYS DEC using forest cover data from the Coastal Change Analysis Program. Size classes are based on ecological importance. Matrix Forest Blocks and Linkages were developed by The Nature Conservancy and The New York Natural Heritage Program.

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Orange County Department of Planning  
 B. Freiman 6/20/2018

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Scale 1:50,000

NEW WINDSOR

CORNWALL-ON-HUDSON

HIGHLANDS

BLOOMING GROVE

WOODBURY

Hudson River

DUTCHESS COUNTY  
 PUTNAM COUNTY

Seaverdam Lake

Moedna Cr.

Baby Brook

Woodbury Cr.

Mineral Spring Bk

Popolopen Lake

Upper Reservoir

Aleck Meadow Reservoir

Sphaenum Pond

Arthurs Pond

Tamarack Pond

Sutherland Pond

Mineral Spring Bk

Jims Pond

Bog Meadow Pond

NATURAL RESOURCES INVENTORY

Tidal Wetlands and Submerged Aquatic Vegetation

Tidal Wetlands and Submerged Aquatic Vegetation

-  Phragmites Australis Dominant
-  Typha Angustifolia Dominant
-  Lower Intertidal Mix
-  Upper Intertidal Mix
-  Wooded Swamp
-  Submerged Aquatic Vegetation
-  Unvegetated Flats
-  Scrub / Shrub
-  Open Water

Roads

-  Interstate
-  Federal Highway
-  State Route
-  County Road
-  Local Road

Hydrology

-  Streams
-  Water Bodies

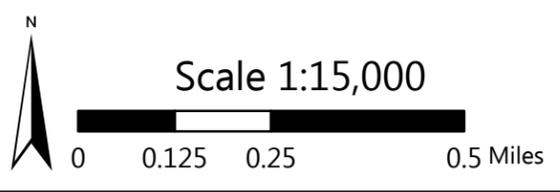
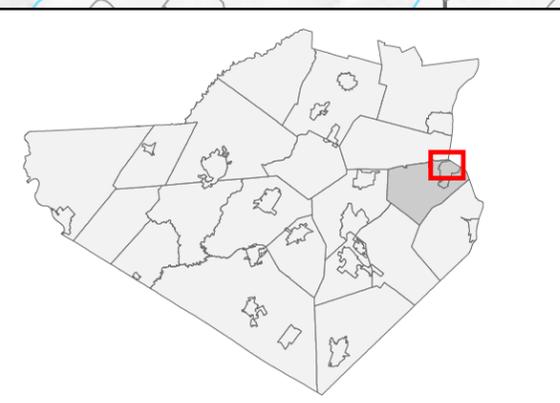
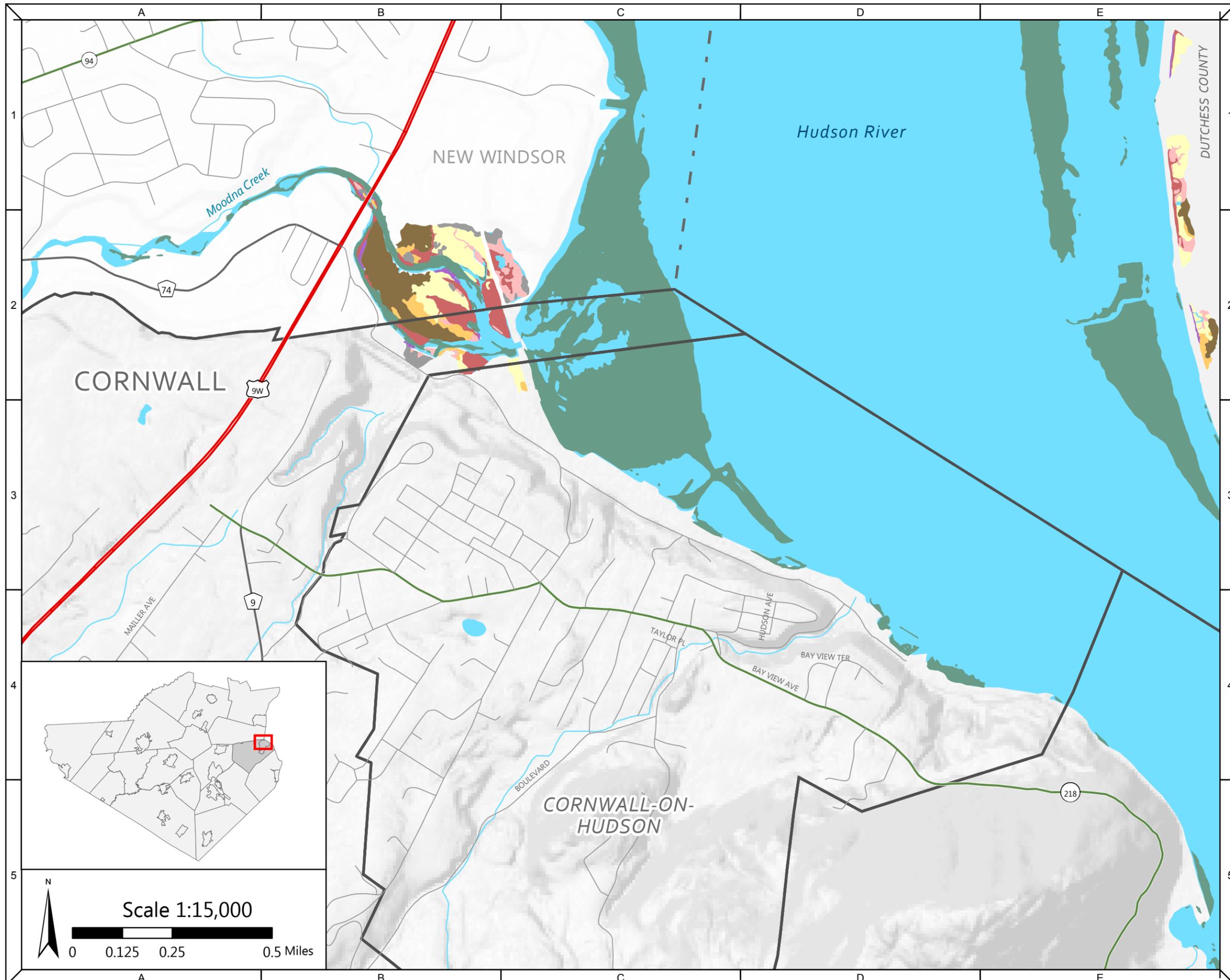
DATA SOURCE: New York State Dept. of Environmental Conservation, 2017, Cornell Institute for Resource Information Sciences, 2017; Hudson River National Estuarine Research Reserve, 2017; New York State Dept. of Transportation, 2017, Orange County Department of Planning, 2018

This map depicts the extent and composition of tidal wetlands and submerged aquatic vegetation (SAV) along the Hudson River. This dataset was created by New York State Department of Environmental Conservation, the Cornell Institute for Resource Information Sciences, and the Hudson River National Estuarine Research Reserve.

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Orange County Department of Planning  
 B. Freiman 6/19/2018

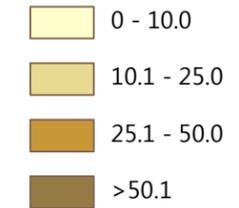
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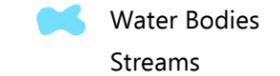
NATURAL RESOURCES INVENTORY

Meadows, Grasslands,  
 and Shrublands

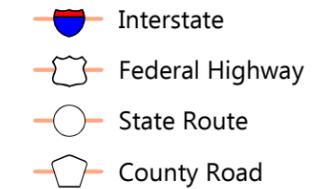
Meadows, Grasslands,  
 and Shrublands (acres)



Hydrology



Roads



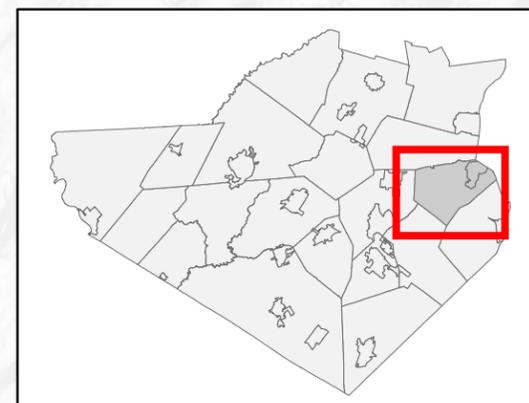
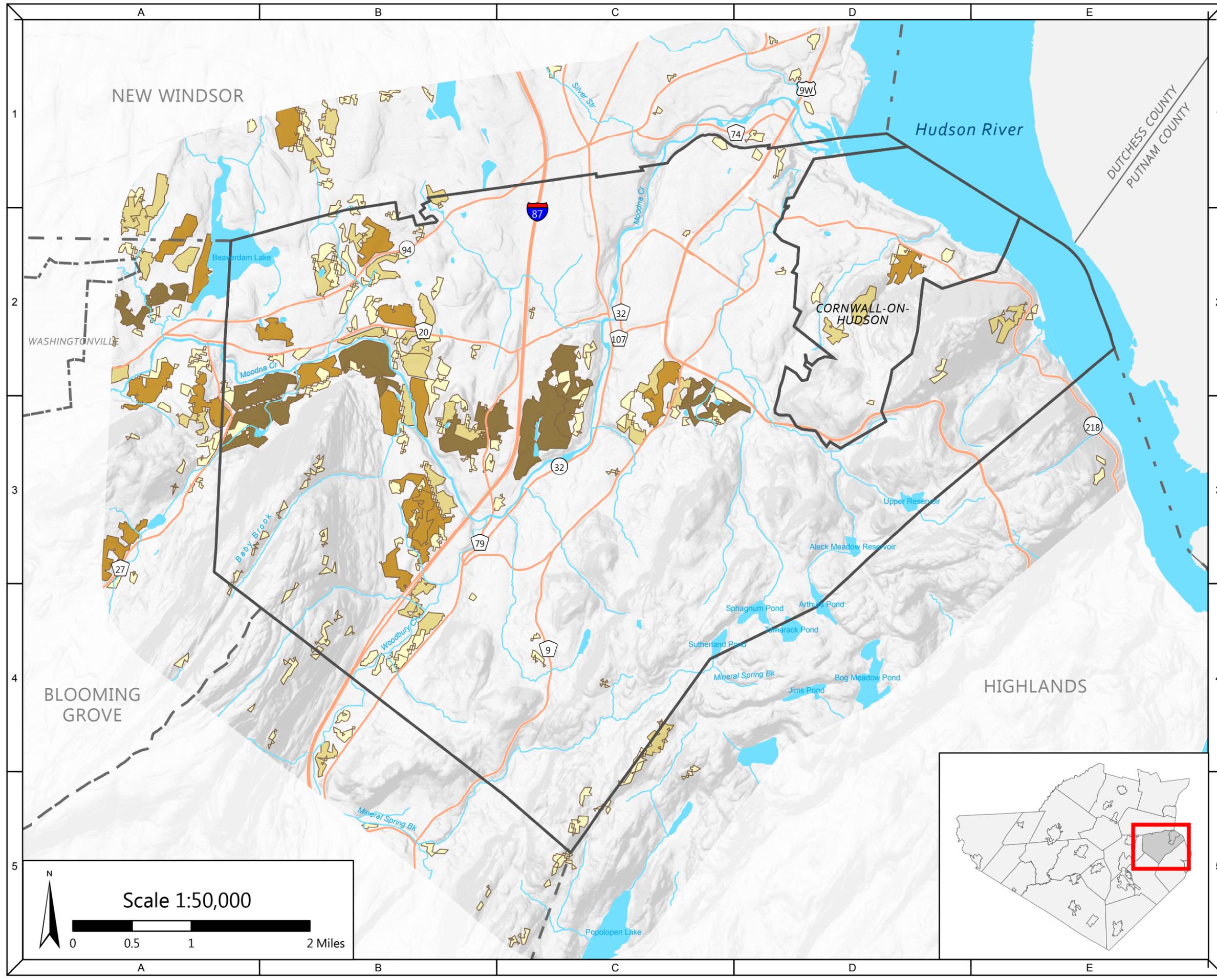
DATA SOURCES: National Land Cover Database, 2011; United States Geological Survey, 2017; New York State Dept. of Environmental Conservation, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018; Hudsonia Ltd., 2017;

Meadows, grasslands, and shrublands were identified using the National Land Cover Database (NLCD), a satellite-based 30-meter-resolution land cover database with coverage of the United States. The NLCD land cover classes used to generate this dataset include "grassland/herbaceous", "shrub/scrub", "cultivated crops", and "pasture/hay".

The "Upland Meadow Areas" and "Wetland Meadow Areas" included on the map were identified by a group of volunteers that completed Hudsonia's Biodiversity Assessment Training in 2007. Habitats were identified through map analysis and aerial photograph interpretation. Note that while some locations were field verified, not all areas were checked.

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 Orange County Department of Planning  
 B. Freiman 6/19/2018

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NATURAL RESOURCES INVENTORY

Watersheds and Sub-basins

USGS 12-Digit HUC

- Moodna Creek Watershed Sub-basins**
- Satterly Creek-Moodna Creek
  - Silver Stream-Moodna Creek
  - Woodbury Creek

- Lower Hudson Watershed Sub-basins**
- Breakneck Brook-Hudson River
  - Foundry Brook-Hudson River
  - Popolopen Creek

- Hydrology**
- Water Bodies
  - Streams

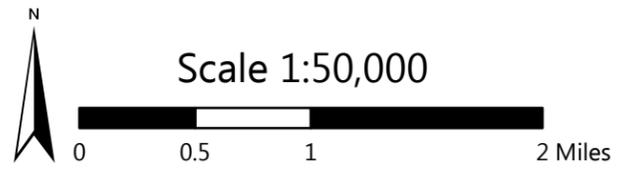
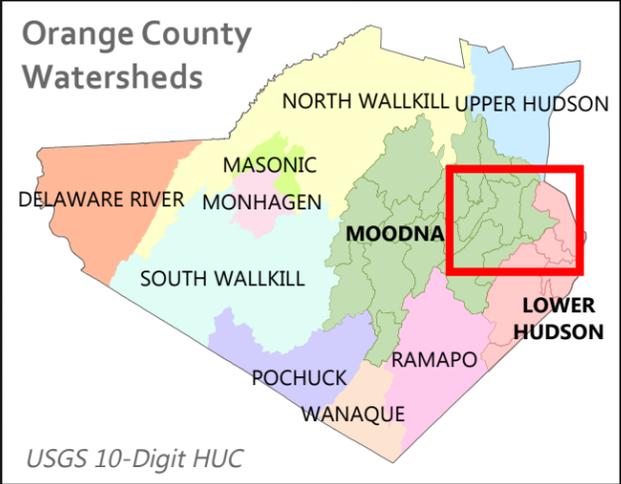
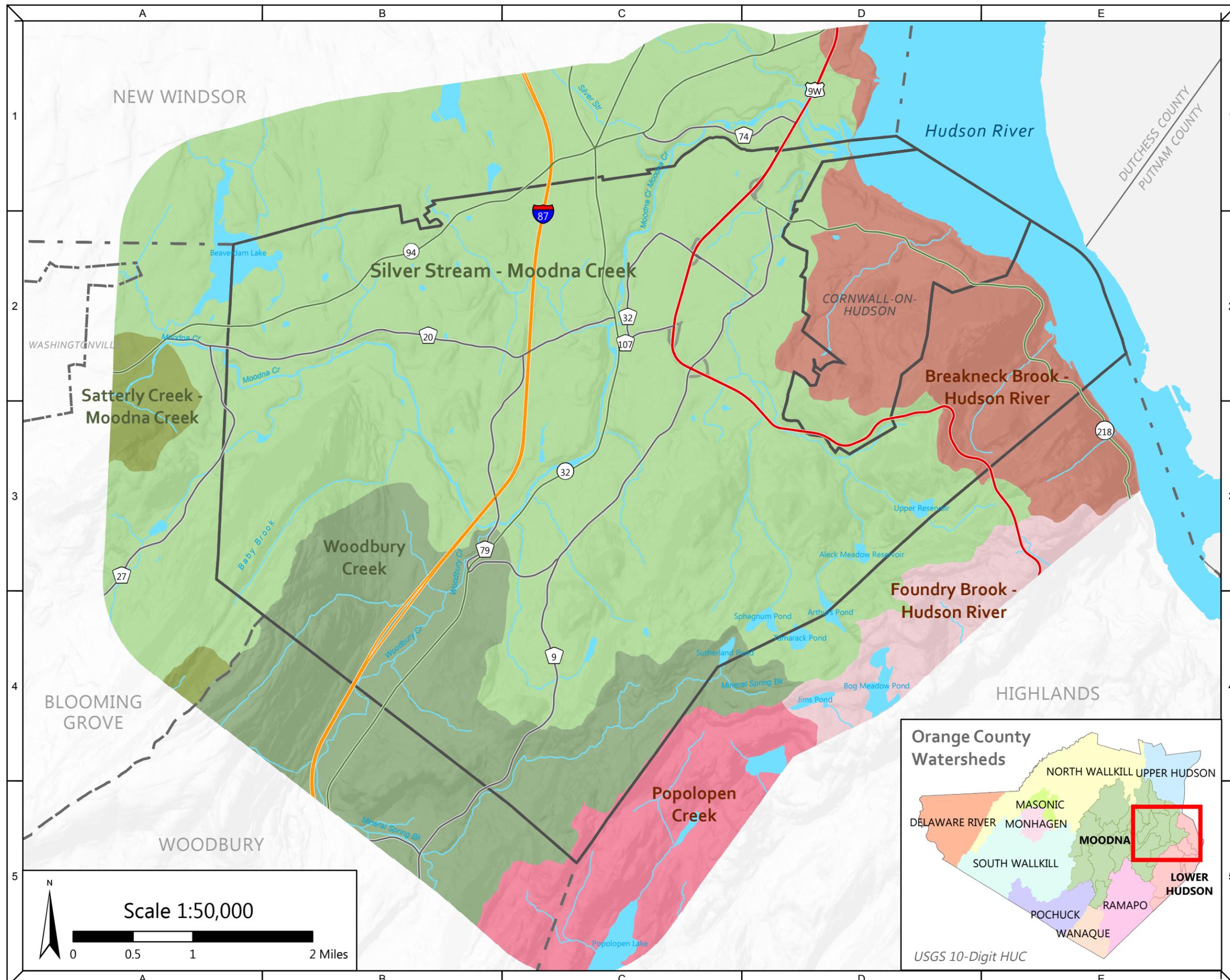
- Roads**
- Interstate
  - Federal Highway
  - State Route
  - County Road

DATA SOURCES: New York State Dept. of Environmental Conservation, 2017; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

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Orange County Department of Planning  
 B. Freiman 6/19/2018

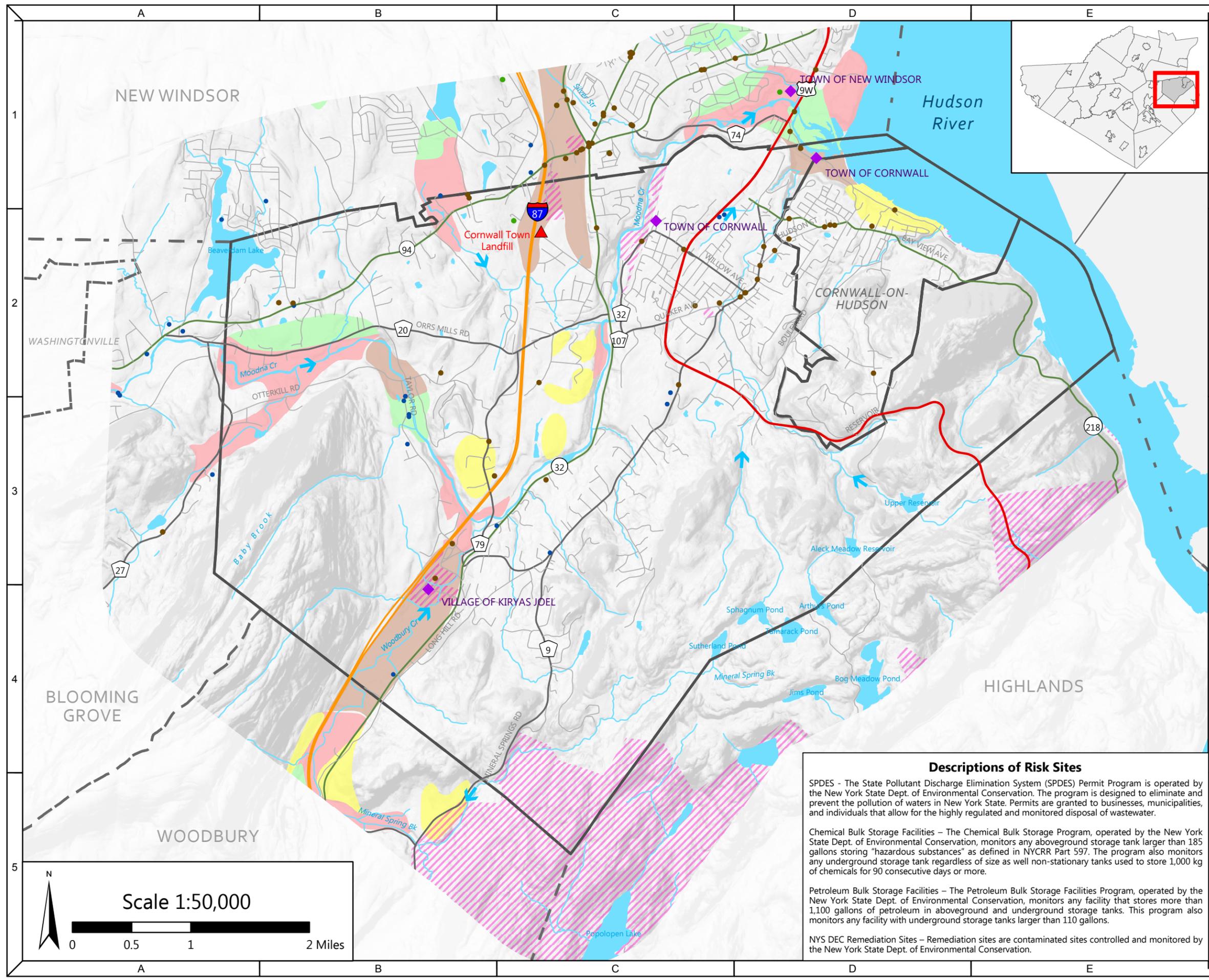
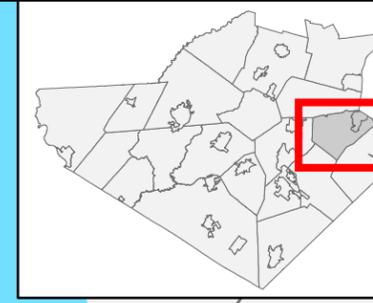
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5

NATURAL RESOURCES INVENTORY

Public Wells, Aquifers, and Risk Sites



**Wells and Environmental Risk Sites**

- Public Wells
- ◆ SPDES Permits and Owners
- Petroleum Bulk Storage Facilities
- Chemical Bulk Storage Facilities
- ▨ NYS DEC Remediation Sites

**Aquifers**

- ▨ Stratified sand and gravel at land surface and below water table
- ▨ Stratified sand and gravel below clay or silt and the water table
- ▨ Stratified clay and silt with no or thin layers of sand and gravel at land surface and below water table
- ▨ Stratified sand and gravel at land surface and above water table

**Roads**

- Interstate
- Federal Highway
- State Route
- County Road
- Local Road

**Hydrology**

- Water Bodies
- Streams
- Direction of Flow

DATA SOURCES: New York State Dept. of Environmental Conservation, 2017; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

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Orange County Department of Planning  
 B. Freiman 6/20/2018

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**Descriptions of Risk Sites**

SPDES - The State Pollutant Discharge Elimination System (SPDES) Permit Program is operated by the New York State Dept. of Environmental Conservation. The program is designed to eliminate and prevent the pollution of waters in New York State. Permits are granted to businesses, municipalities, and individuals that allow for the highly regulated and monitored disposal of wastewater.

Chemical Bulk Storage Facilities - The Chemical Bulk Storage Program, operated by the New York State Dept. of Environmental Conservation, monitors any aboveground storage tank larger than 185 gallons storing "hazardous substances" as defined in NYCRR Part 597. The program also monitors any underground storage tank regardless of size as well as non-stationary tanks used to store 1,000 kg of chemicals for 90 consecutive days or more.

Petroleum Bulk Storage Facilities - The Petroleum Bulk Storage Facilities Program, operated by the New York State Dept. of Environmental Conservation, monitors any facility that stores more than 1,100 gallons of petroleum in aboveground and underground storage tanks. This program also monitors any facility with underground storage tanks larger than 110 gallons.

NYS DEC Remediation Sites - Remediation sites are contaminated sites controlled and monitored by the New York State Dept. of Environmental Conservation.

Scale 1:50,000



**NATURAL RESOURCES INVENTORY**  
**Flood Zones and Flooded Roads**

**FEMA Flood Zones**

-  100-year Flood Zone
-  500-year Flood Zone

**Flooded and/or Closed Roads**

-  Closed Roads - August 2011 (Hurricane Irene)
-  Flooded Roads - April 2007

**Other Roads**

-  Interstate
-  Federal Highway
-  State Route
-  County Road
-  Local Road

**Hydrology**

-  Water Bodies
-  Streams

DATA SOURCES: New York State Dept. of Environmental Conservation, 2017; United States Geological Survey, 2017; US Army Corps of Engineers, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018; Federal Emergency Management Agency, 2017

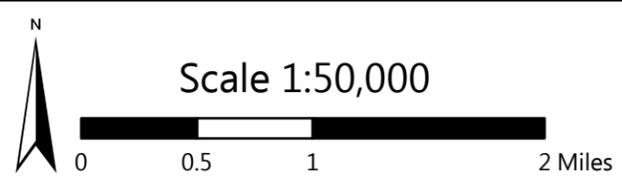
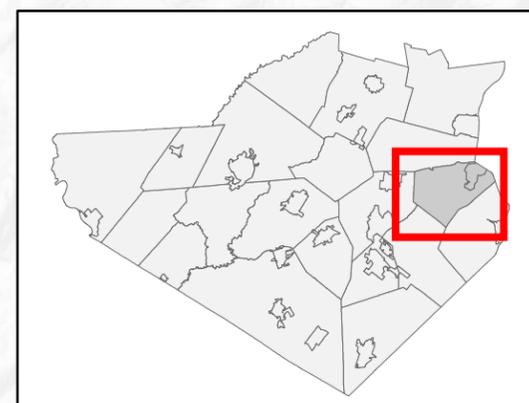
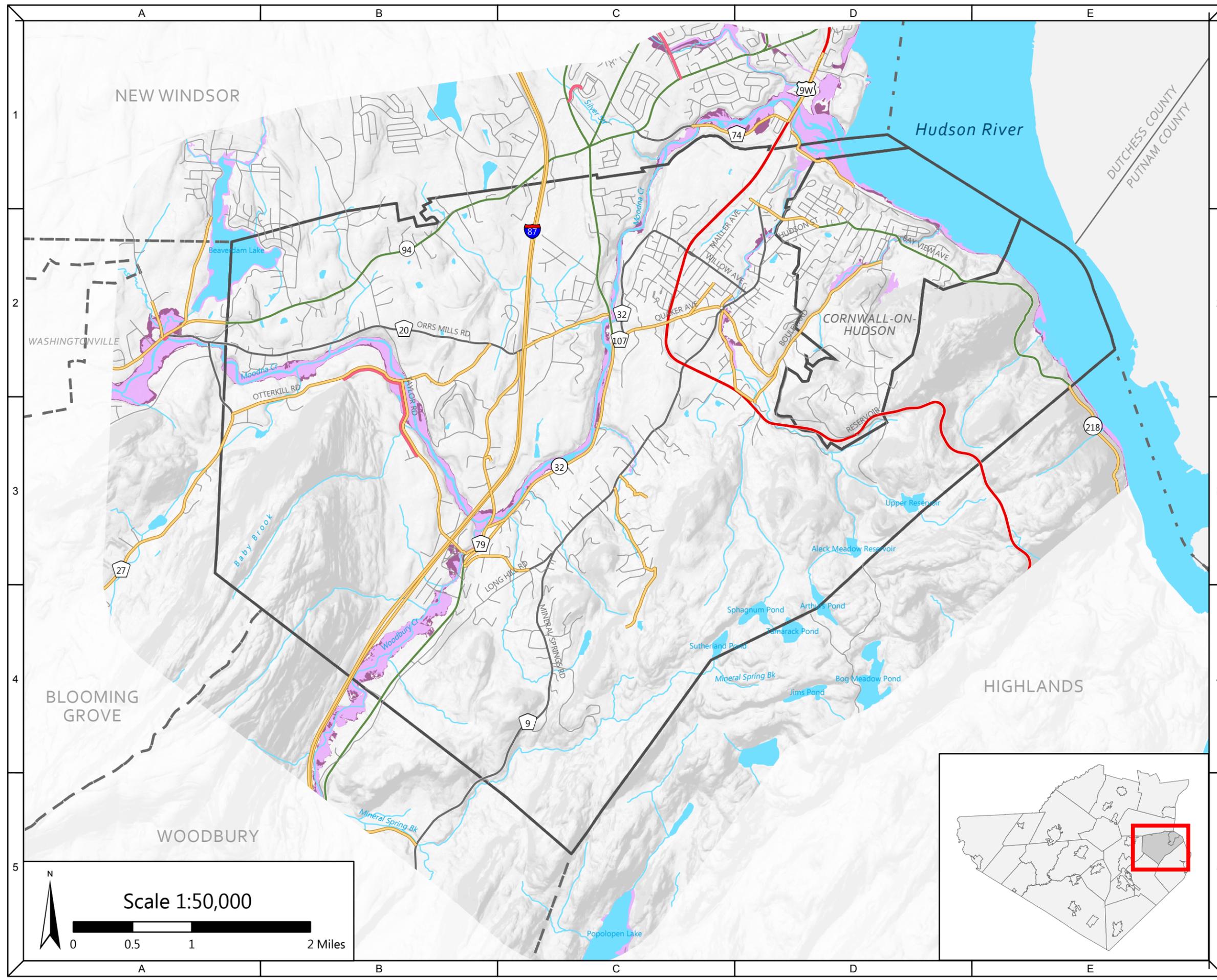
Flood zones are geographic areas that the Federal Emergency Management Agency (FEMA) has determined to possess a 1% annual chance (100-year flood) or a 0.2% annual chance (500-year flood) of being inundated by a flooding event. (Source: Federal Emergency Management Agency)

Hurricane Irene in August 2011 was Orange County's most intense flooding event in recent memory. At its maximum, over 11 inches of rain fell in parts of the county. The Nor'easter of April 2007, which produced 6 inches of rain in two days, previously held such a title.

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Orange County Department of Planning  
 B. Freiman 6/20/2018

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NATURAL RESOURCES INVENTORY

Wetlands and Hydric Soils

Wetlands and Hydric Soils

- NYS DEC Wetlands
- NWI Wetlands
- Probable Wetlands (Hydric Soils)
- Possible Wetlands (Somewhat Poorly Drained Soils)

Hydrology

- Water Bodies
- Streams

Roads

- Interstate
- Federal Highway
- State Route
- County Road
- Local Road

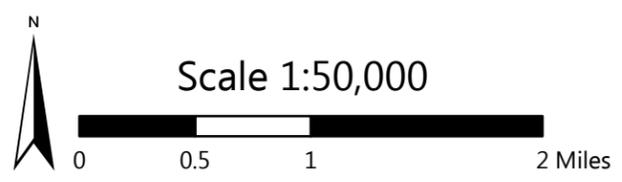
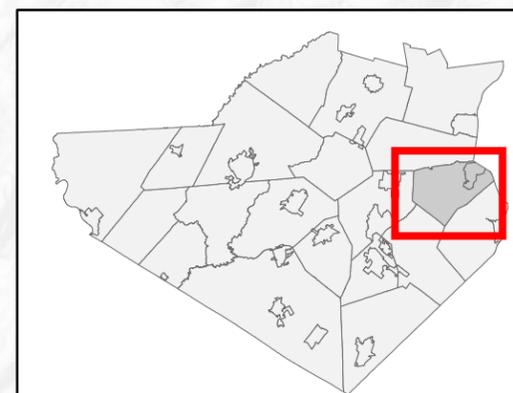
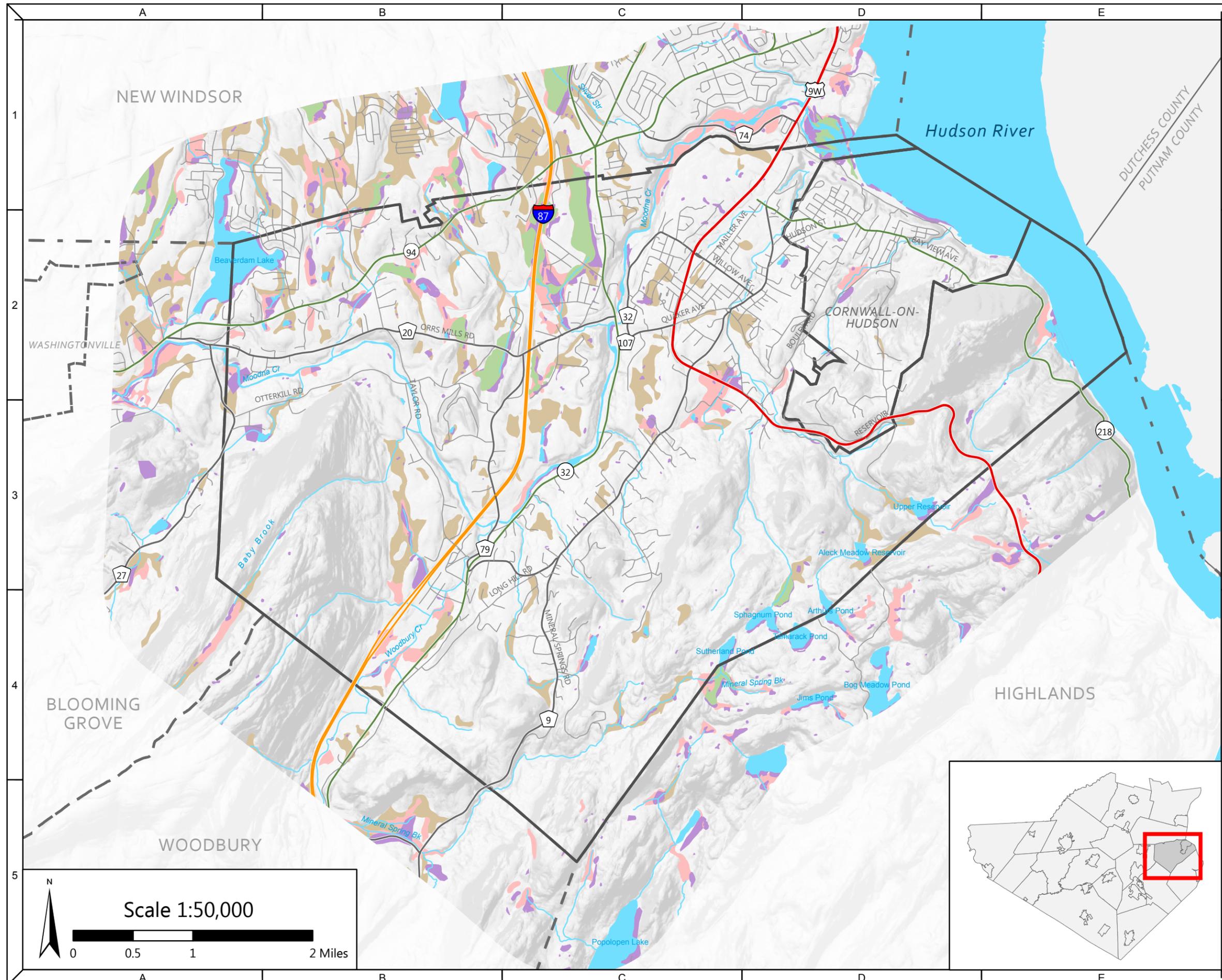
DATA SOURCE: United States Geologic Survey, 2017; New York State Dept. of Environmental Conservation, 2017; National Wetland Inventory, 2017; United States Department of Agriculture, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

This map depicts wetlands delineated by the New York State Department of Environmental Conservation (NYSDEC) and wetlands identified in the USFWS National Wetlands Inventory. Probable and possible wetlands are also shown. These areas were identified based on soil drainage. Probable wetlands consist of hydric soil and possible wetlands consist of somewhat poorly drained soil.

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NATURAL RESOURCES INVENTORY

Stream Classification

Stream Classes and Standards

-  Class A
-  Class A(T)
-  Class A(TS)
-  Class B
-  Class B(T)
-  Class C
-  Class C(TS)
-  Water Bodies

Roads

-  Interstate
-  Federal Highway
-  State Route
-  County Road
-  Local Road

DATA SOURCES: New York State Dept. of Environmental Conservation, 2017; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

CLASSES - Stream classes are defined by the NYSDEC based on existing or best usage. The classification AA or A is assigned to waters used as a source of drinking water. Classification B indicates a best usage for swimming and other contact recreation, but not for drinking water. Classification C is for waters supporting fisheries and suitable for non-contact activities. The lowest classification and standard is D.

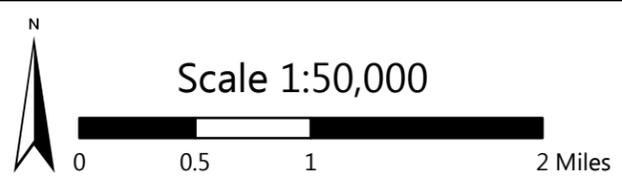
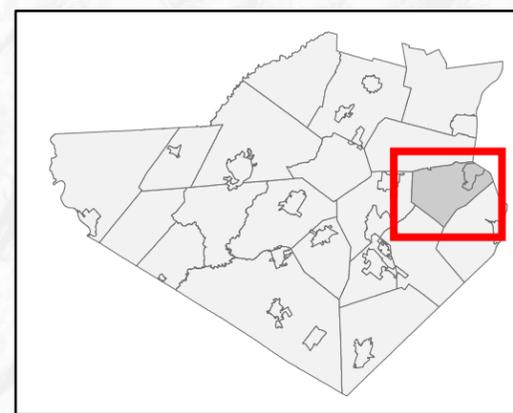
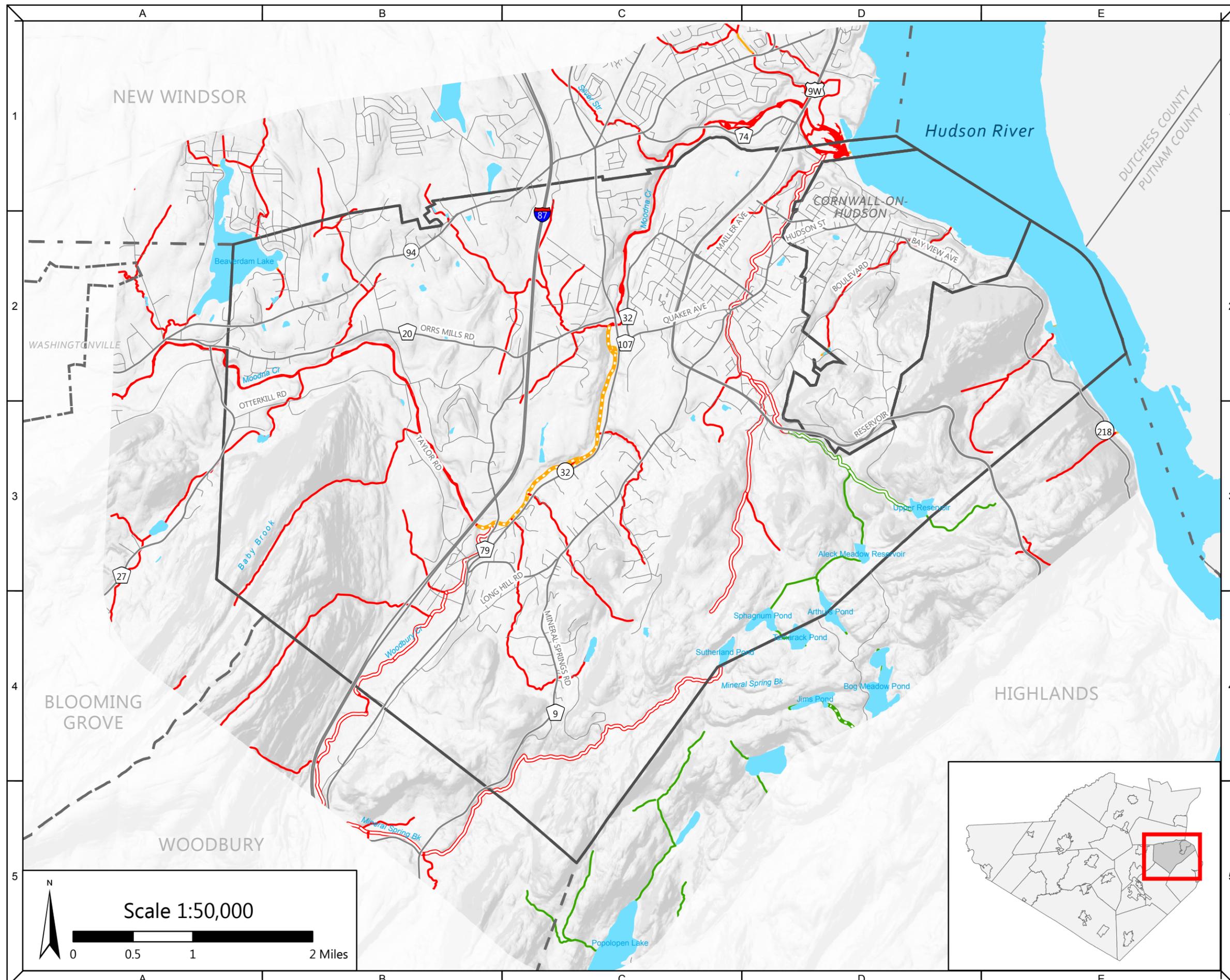
STANDARD - The standards of quality and purity established for all classifications (A, B, C, etc.). Waters with classifications A, B, and C may also have a standard of (T), indicating that it may support trout population, or (TS), indicating that it may support trout spawning (TS). Special requirements apply to sustain these waters that support these valuable and sensitive fisheries resources.

NY State Public Health Law Statute PART 701 CLASSIFICATIONS-SURFACE WATERS AND GROUNDWATERS (Statutory authority: Environmental Conservation Law)

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Scale 1:50,000

**NATURAL RESOURCES INVENTORY**

**Stream Biomonitoring and  
 Priority Waterbodies**

**Water Quality Assessment  
 (BAP Score)**

- 7.5 - 10.0 Not Impacted
- 5.0 - 7.49 Slightly Impacted
- 2.5 - 4.99 Moderately Impacted

**NYSDEC Waterbody Assessment**

- ~ Minor Impacts
- ~ No Known Impact
- ~ Unassessed Stream
- ☾ Unassessed Water Body
- NYSDEC Biomonitoring Sites
- Dams
- Culverts
- ➔ Direction of Flow

**Roads**

- Interstate
- Federal Highway
- State Route
- County Road

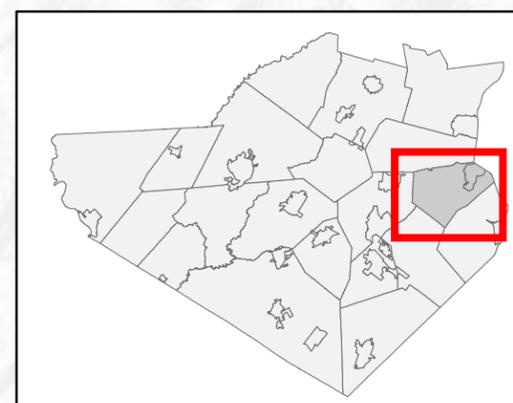
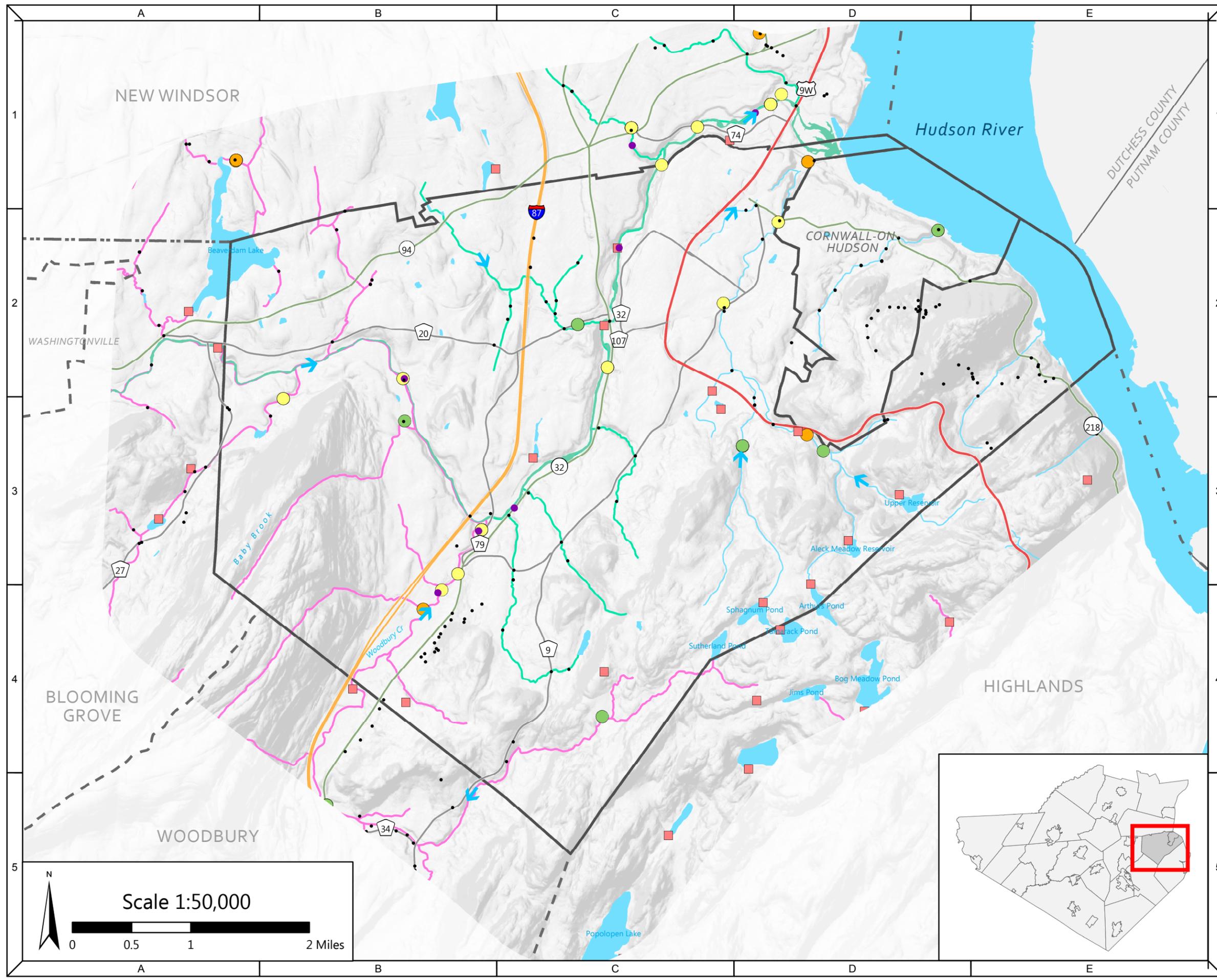
DATA SOURCES: New York State Dept. of Environmental Conservation, 2017; Orange County Water Authority, 2017; Orange County Dept. of Planning, 2018; New York State Dept. of Transportation, 2017; United States Geological Survey, 2017

Water Quality Assessment was performed by the Orange County Water Authority (OCWA) from 2004 to 2012. Biological Assessment Profile (BAP) scores are based on in-stream collection of benthic macroinvertebrate samples and subsequent lab analysis. Parameters for developing a BAP score include species richness, EPT richness, Hilsenhoff's biotic index, percent model affinity, nutrient biotic index, species diversity, and non-Chironomidae and Oligochaeta richness.

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NATURAL RESOURCES INVENTORY

Bedrock Geology

Generalized Bedrock Material

- Cambrian - Lower Ordovician, limestone, dolostone (dolomite)
- Cambrian - Middle Ordovician, carbonate, melange
- Lower Devonian - Silurian, limestone, dolostone (dolomite)
- Middle Devonian, shale, siltstone
- Middle Ordovician, graywacke, shale
- Middle Proterozoic, gneiss, granitic gneiss
- Middle Proterozoic, gneiss, quartzite
- Middle Proterozoic, granite, granitic gneiss
- Middle Proterozoic, granitic gneiss, metasedimentary rock
- Middle Proterozoic, mafic gneiss
- Quaternary, alluvium, glacial drift
- Holocene, water

Roads

- Interstate
- Federal Highway
- State Route
- County Road

Hydrology

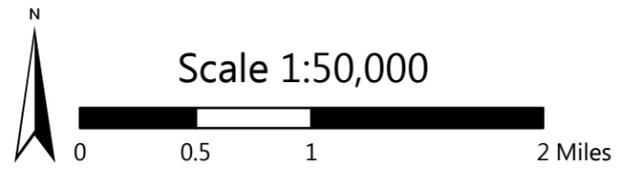
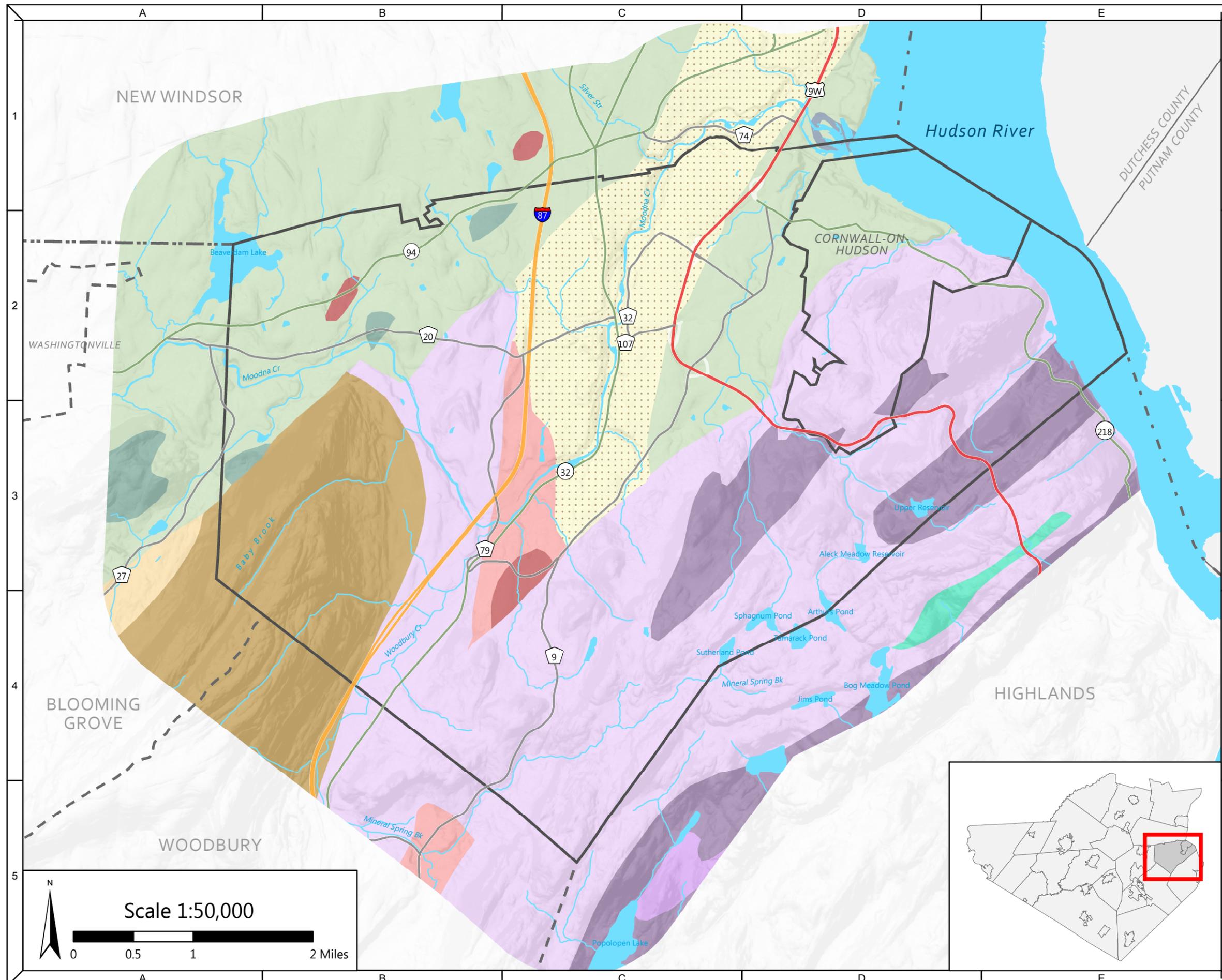
- Water Bodies
- Streams

DATA SOURCES: New York State Museum, 2017; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

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Scale 1:50,000

NATURAL RESOURCES INVENTORY

General Soil Classes

Soil Classes

-  Prime Farmland
-  Prime Farmland If Drained
-  Soils of Statewide Importance
-  Black Dirt / Organic
-  Non-Agricultural

Roads

-  Interstate
-  Federal Highway
-  State Route
-  County Road

Hydrology

-  Streams
-  Water Bodies

DATA SOURCES: United States Dept. of Agriculture Soil Conservation Service, 2017; Soil Survey Geographic Database, 2017; New York State Dept. of Environmental Conservation, 2017; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

**PRIME FARMLAND** – Soils that possess the most ideal combination of physical and chemical characteristics for producing agricultural products and for growing feed for livestock. These properties include resistance to erosion, infrequent flooding, and the ability to resist oversaturation. Prime Farmland soil criteria are established by the U.S. Dept. of Agriculture.

**PRIME FARMLAND IF DRAINED** – Soils that meet all criteria for Prime Farmland soil except for depth to seasonal high water table. These soils are suitable for drainage. New York State designates somewhat poorly drained soils as Prime Farmland if Drained as long as they meet all other Prime Farmland soil criteria.

**SOILS OF STATEWIDE IMPORTANCE** – New York State defines Soils of Statewide Importance as soils that do not meet all criteria for Prime Farmland or Prime Farmland if Drained, but still possess significant mineral loads and fall within land capability classes 2e, 2s, 2w, 3e, 3s, 3w, or 4w (see link below).

**BLACK DIRT/ORGANIC** – Black Dirt soils originate from the bottoms of ancient glacial lakes. These dark soils are highly fertile and are ideal for agriculture.

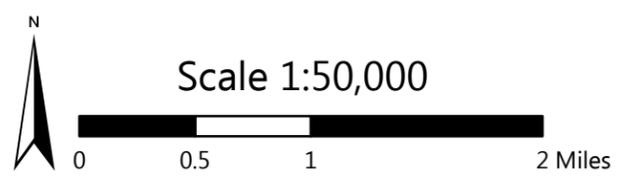
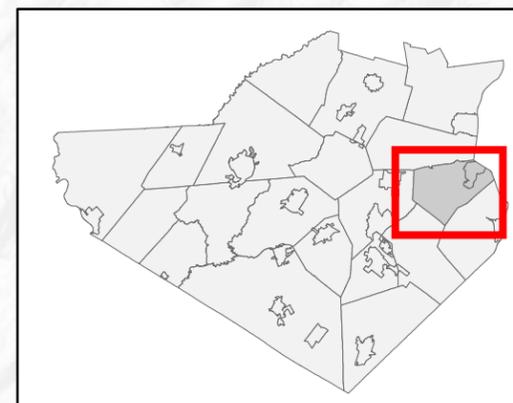
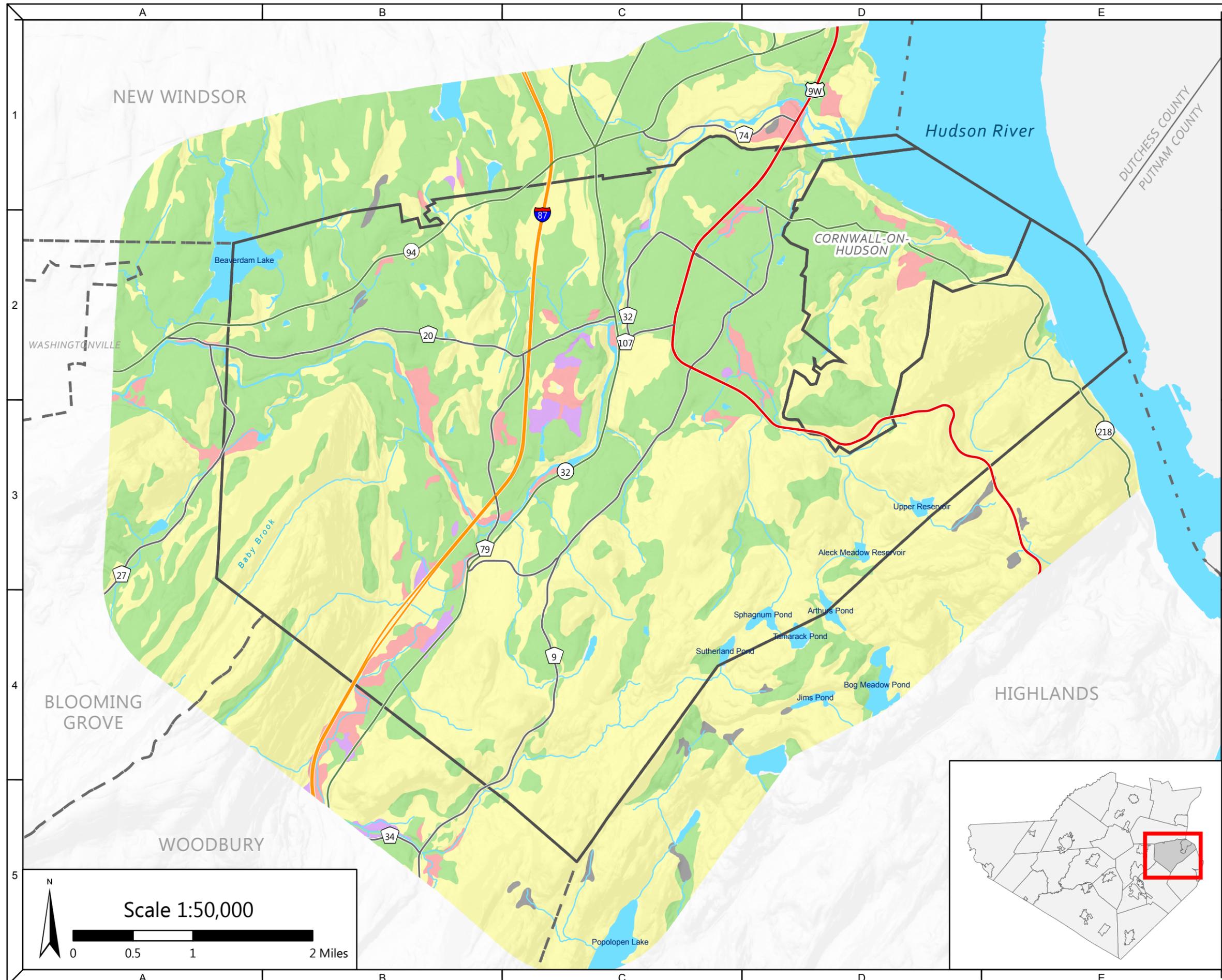
**NON-AGRICULTURAL** – These soils do not meet any of the above criteria for farmland use.

For more information regarding soil classes, the U.S. Dept. of Agriculture, and the Soil Survey Geographic Database (SSURGO), please visit: <https://www.nrcs.usda.gov/>.

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NATURAL RESOURCES INVENTORY

Calcareous and Glacial  
 Outwash Soils

Soil Types

-  Glacial Outwash
-  Calcareous
-  Somewhat Calcareous

Hydrology

-  Water Bodies
-  Streams

Roads

-  Interstate
-  Federal Highway
-  State Route
-  County Road
-  Local Road

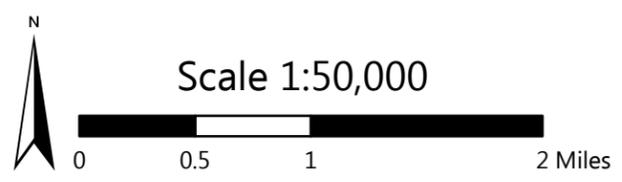
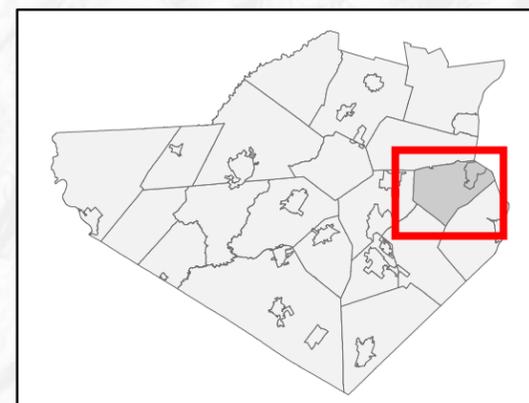
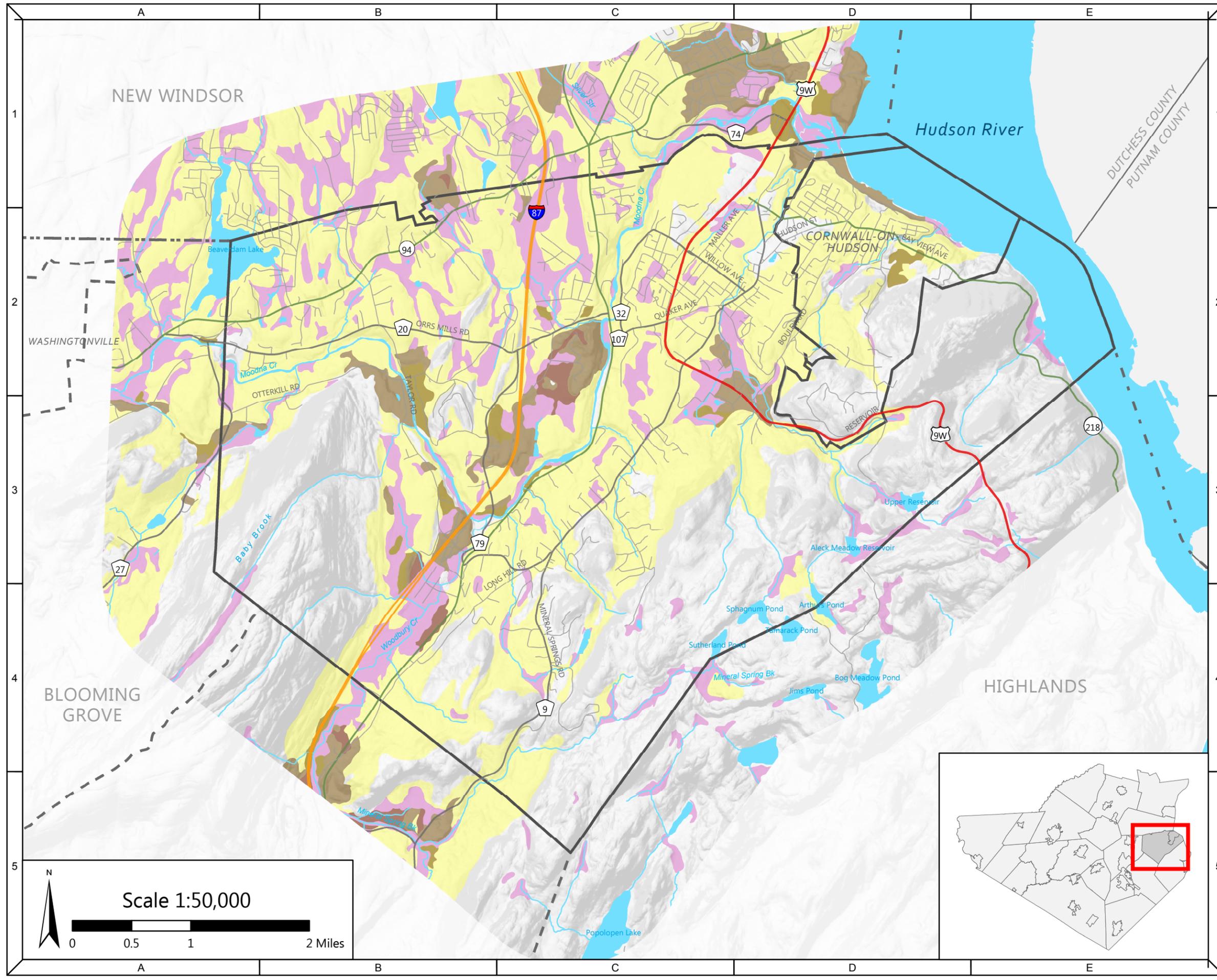
DATA SOURCES: New York State Dept. of Transportation, 2017; United States Geological Survey, 2017; New York State Dept. of Environmental Conservation, 2017; Orange County Dept. of Planning, 2018; Natural Resource Conservation Service, 2017; Scenic Hudson, 2017

Calcareous or potentially calcareous soils are soil units with reaction [pH] of greater than 6.5 in surface, subsoil, or substratum layers.

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NATURAL RESOURCES INVENTORY

Steep Slopes

Slope Grade

- 8 - 15% Slope
- 15.1 - 25% Slope
- >25% Slope

Hydrology

- Streams
- Water Bodies

Roads

- Interstate
- Federal Highway
- State Route
- County Road

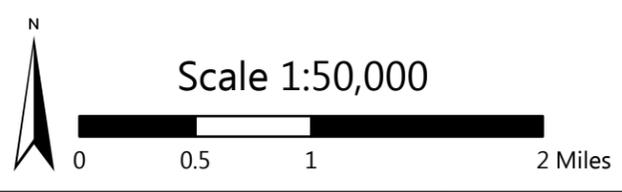
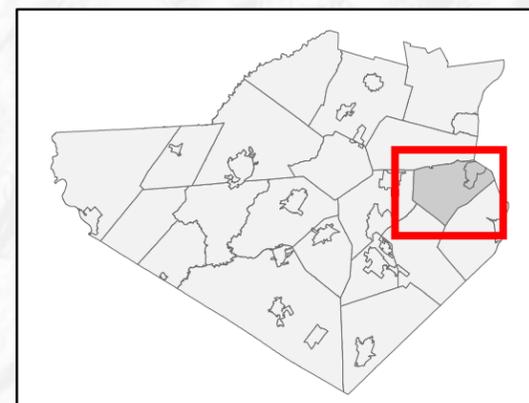
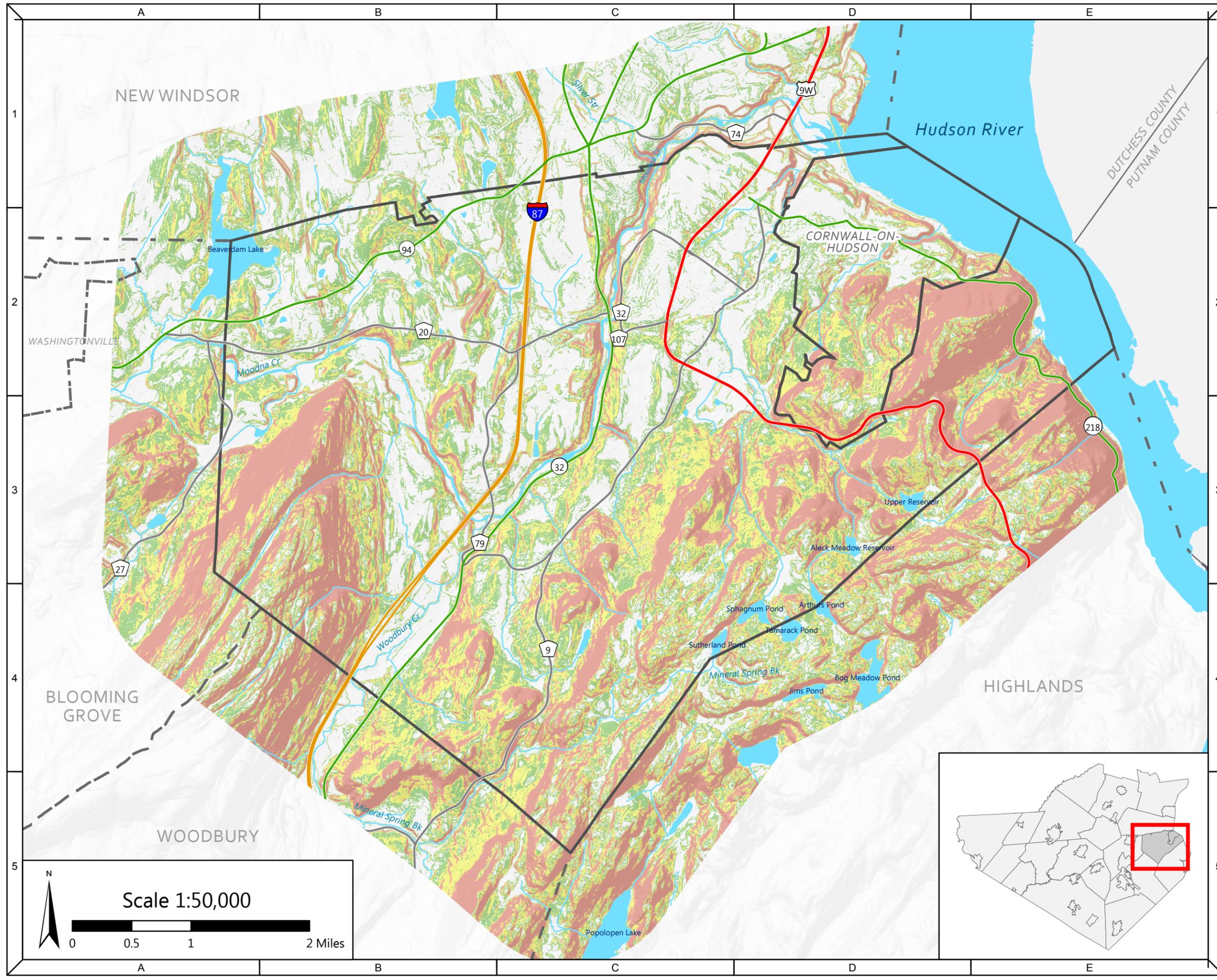
DATA SOURCES: United States Dept. of Agriculture Soil Conservation Service, 2017; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

Slope data acquired from the USDA Soil Conservation Service: Soil Survey of Orange County, NY; KS Olsen et al 1975. Soil map units analyzed by OCWA to three categories of slope: suffix "C" 8-15% slope; suffix "D" 15-25% slope or "moderately steep"; and suffix "F" >25% slope "very steep".

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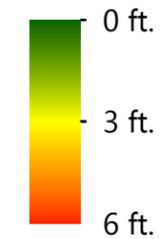
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NATURAL RESOURCES INVENTORY

Coastal Sea Level Rise

100-Year Sea Level Inundation



Hydrology

- Streams
- Water Bodies

Roads

- Interstate
- Federal Highway
- State Route
- County Road
- Local Road

DATA SOURCE: New York State Dept. of Environmental Conservation, 2017; Scenic Hudson, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

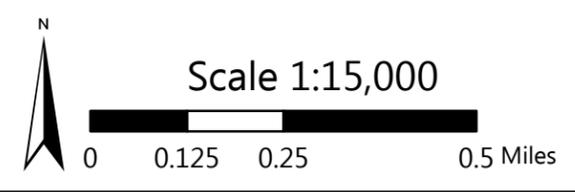
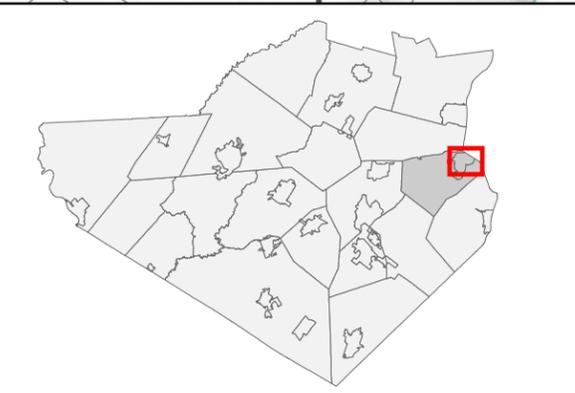
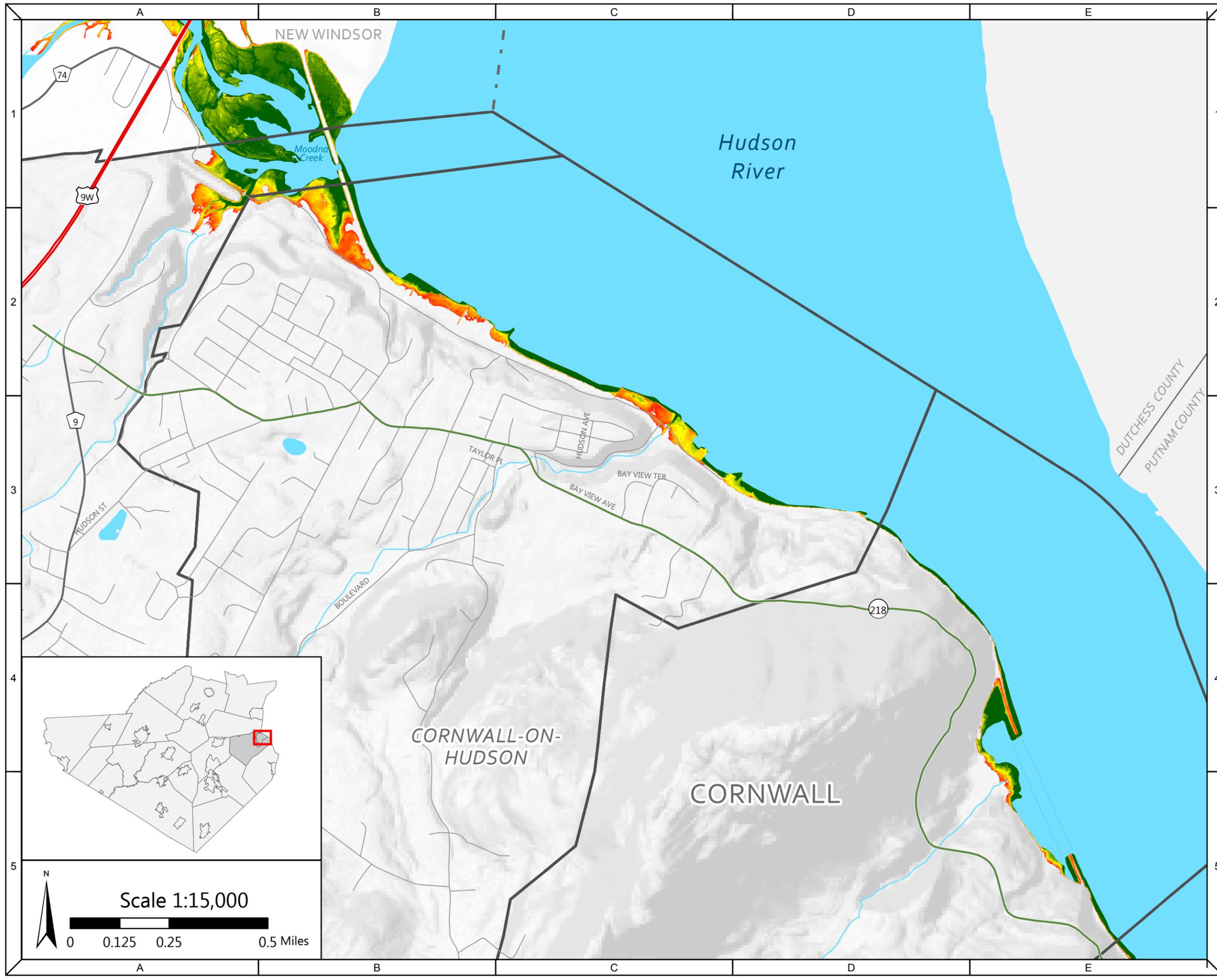
DESCRIPTION OF INUNDATION MODEL  
 (Scenic Hudson, 2017)

Scenic Hudson's inundation layer is a "modified-bathtub" model of current and potential future Hudson River inundation zones. The model uses a base condition of mean higher-high water (MHHW), which is the height of the higher tide each day averaged over a 19 year period. The extent of each vertical 6" (0.5 ft) increase in inundation above MHHW is modeled up to a level of 72" (6 ft). Raster values of 6-72 represent inches of increase above MHHW, while 0 represents the current extent of MHHW.

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NATURAL RESOURCES INVENTORY

Land Cover

Land Cover Classes

-  Open water
-  Developed, open space; 0-19% impervious
-  Developed, low intensity; 20-49% impervious
-  Developed, medium intensity; 50-79% impervious
-  Developed, high intensity; 80-100% impervious
-  Barren land (rock/sand/clay)
-  Deciduous forest
-  Evergreen forest
-  Mixed forest
-  Shrub/scrub
-  Grassland/herbaceous
-  Pasture/hay
-  Cultivated crops
-  Woody wetlands
-  Emergent herbaceous wetlands

Roads

-  Interstate
-  Federal Highway
-  State Route
-  County Road

Hydrology

-  Water Bodies
-  Streams

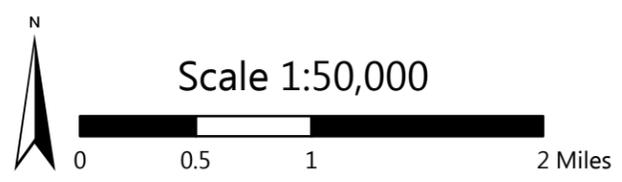
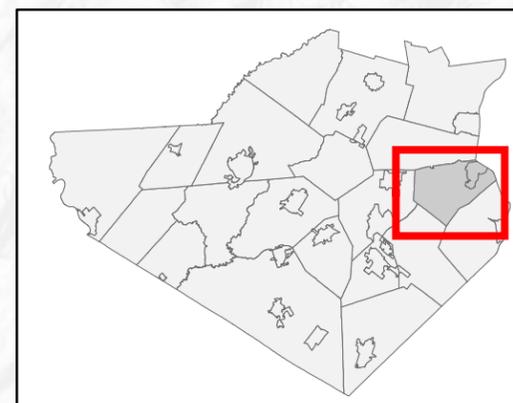
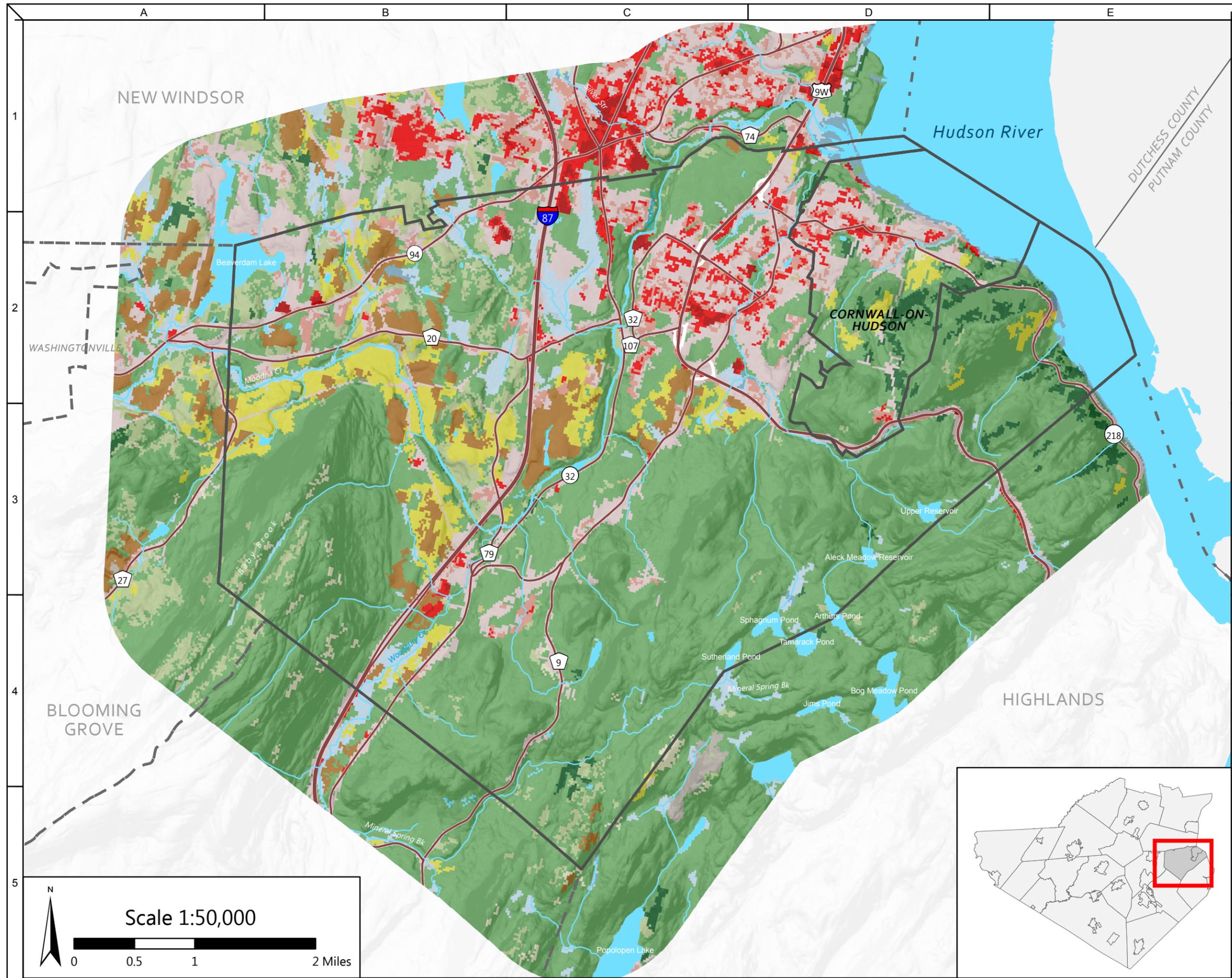
DATA SOURCES: National Land Cover Database, 2011; United States Geological Survey, 2017; New York State Dept. of Environmental Conservation, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018

Land cover classes are based on the National Land Cover Database (NLCD), a satellite-based 30-meter-resolution land cover database with coverage of the US. For more information, visit <https://www.mrlc.gov/nlcd2011.php>.

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NATURAL RESOURCES INVENTORY

Farmland Soils and  
 Agricultural Parcels

NYS Real Property System Classes

-  105 - Vacant Farmland
-  110 - Livestock and Products
-  112 - Dairy Products
-  113 - Cattle, Calves, Hogs
-  116 - Other Livestock
-  117 - Horse Farm
-  120 - Field Crops
-  151 - Apples, Peaches, Cherries, etc.

Farmland Soils

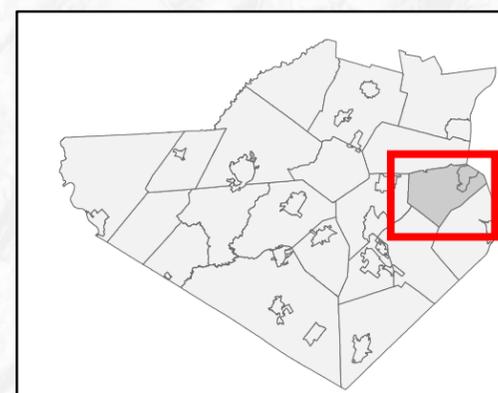
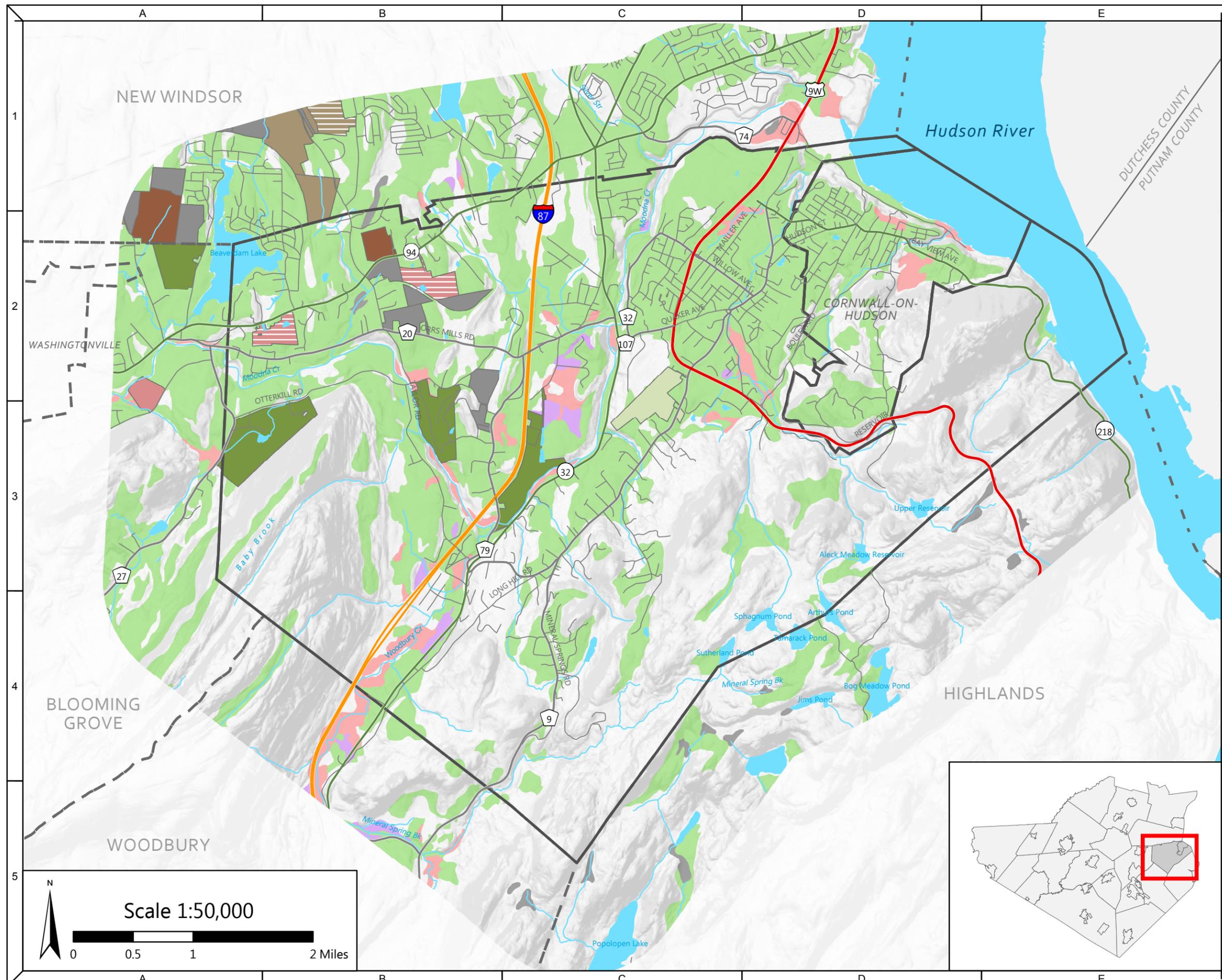
-  Prime Farmland
-  Prime Farmland If Drained
-  Soils of Statewide Importance
-  Black Dirt / Organic

Roads

-  Interstate
-  Federal Highway
-  State Route
-  County Road
-  Local Road

Hydrology

-  Water Bodies
-  Streams

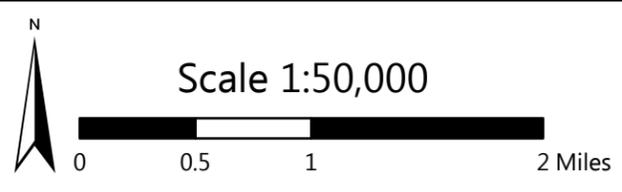


DATA SOURCES: New York State Dept. of Taxation and Finance, 2018; United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2017; New York State Dept. of Environmental Conservation, 2017

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NATURAL RESOURCES INVENTORY  
**Protected Open Space**

**Protected Areas**

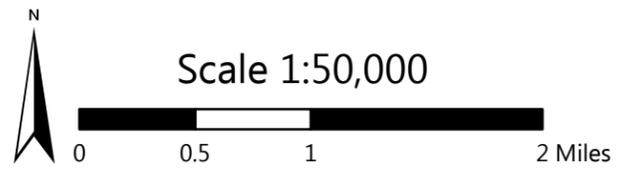
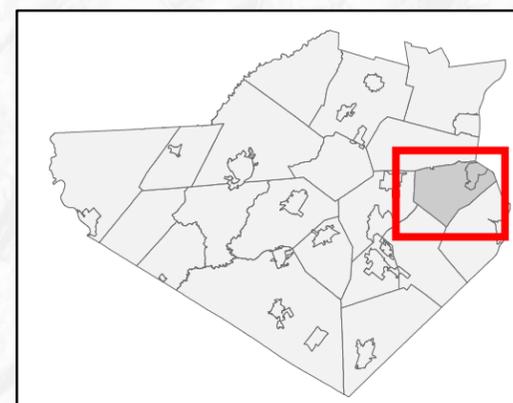
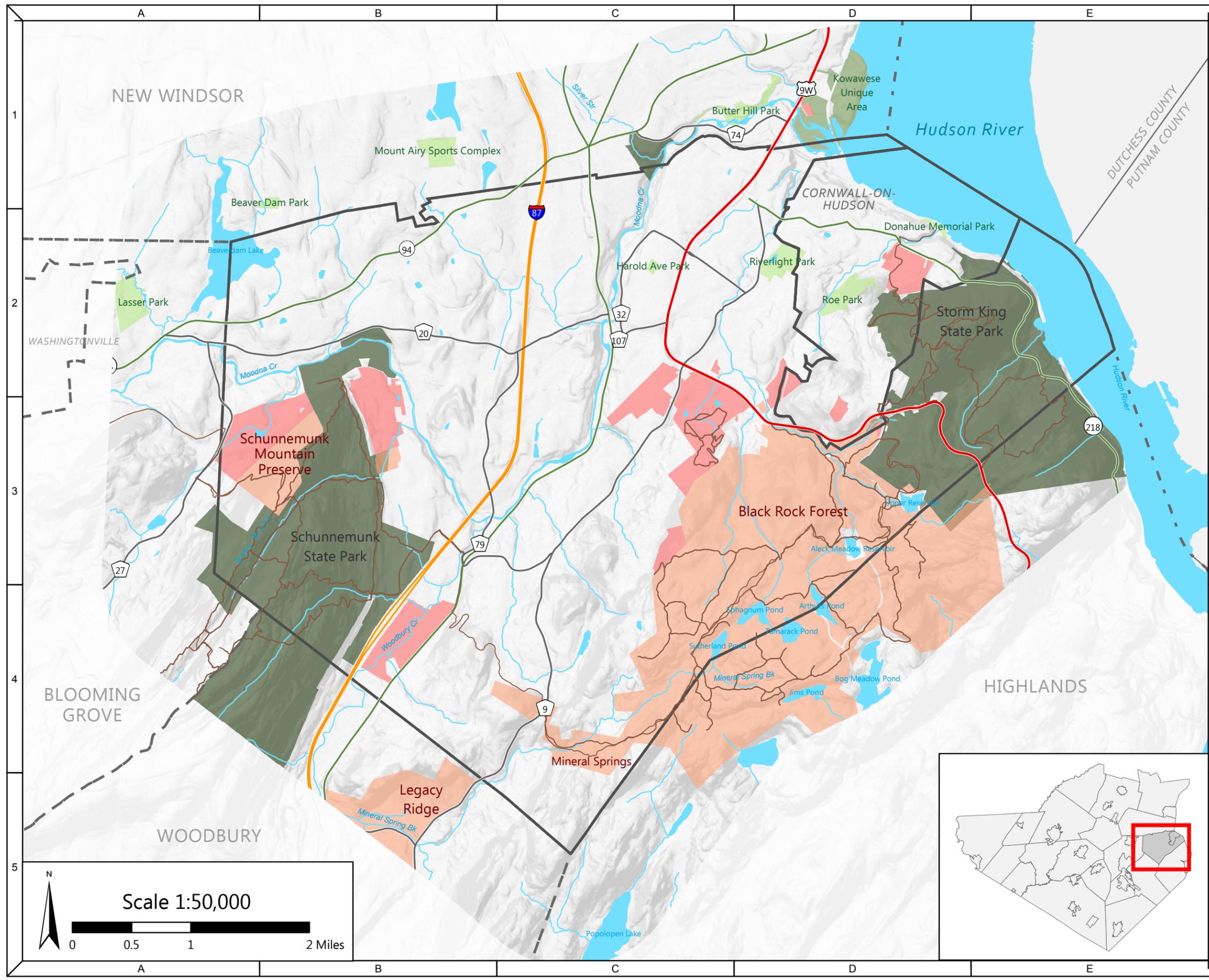
-  Municipal Park
-  County Park
-  State Park
-  Public Nature Preserves
-  Conservation Easements

**Hydrology**

-  Streams
-  Water Bodies

**Roads**

-  Interstate
-  Federal Highway
-  State Route
-  County Road
-  Hiking and Walking Trails

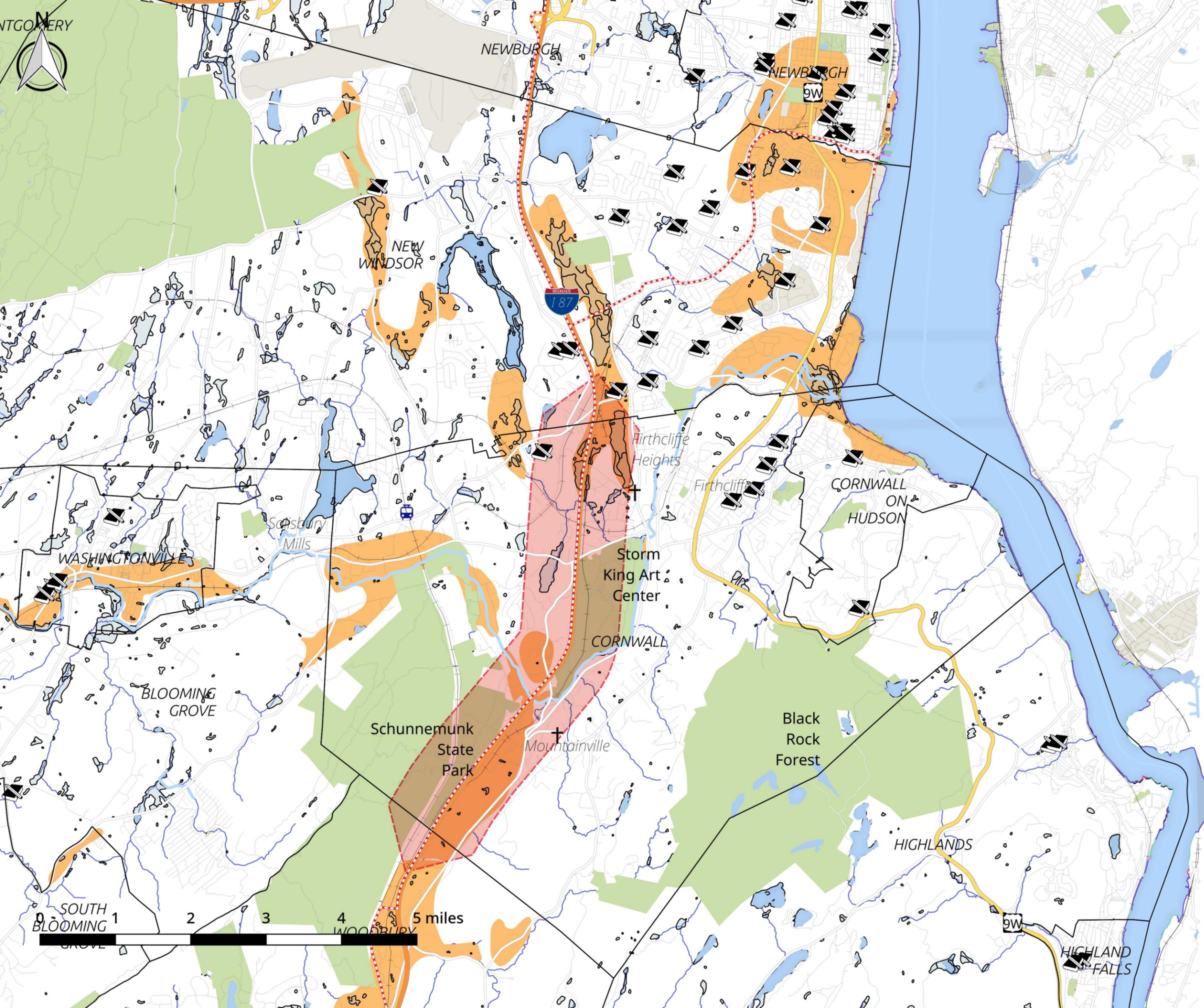


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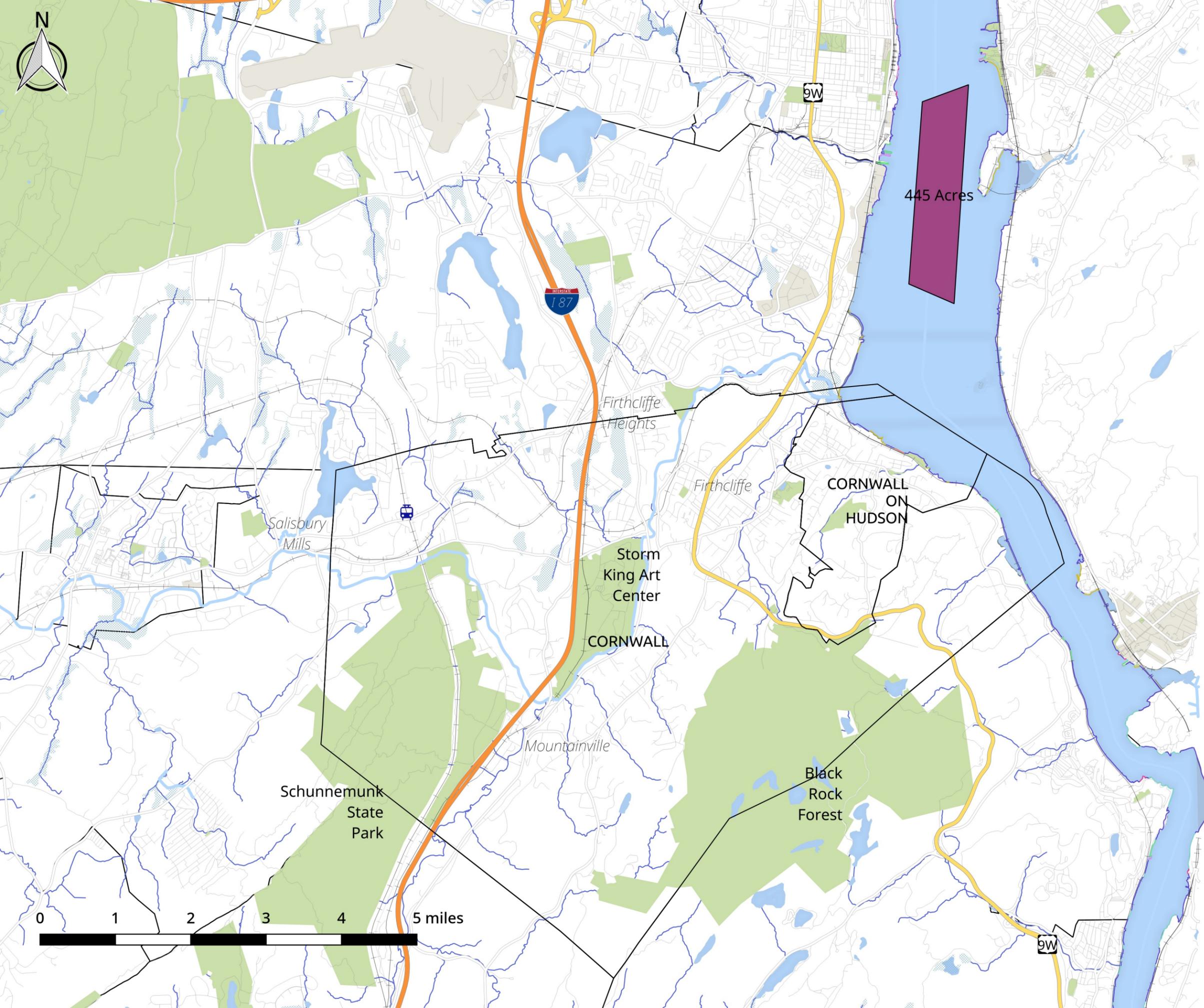
Orange County Department of Planning  
 B. Freiman 6/19/2018

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## Proposed Pilgrim Oil Pipeline Map

- Legend**
-  MTA North
  -  Hamlets
  -  motorway
  -  trunk & primary
  -  minor roads
  -  minor roads
  -  rails
  -  water
  -  forest & park
  -  DEC wetland
  -  stream
  -  municipality
  -  school
  -  sand and gravel aquifer
  -  pilgrim pipelines



445 Acres

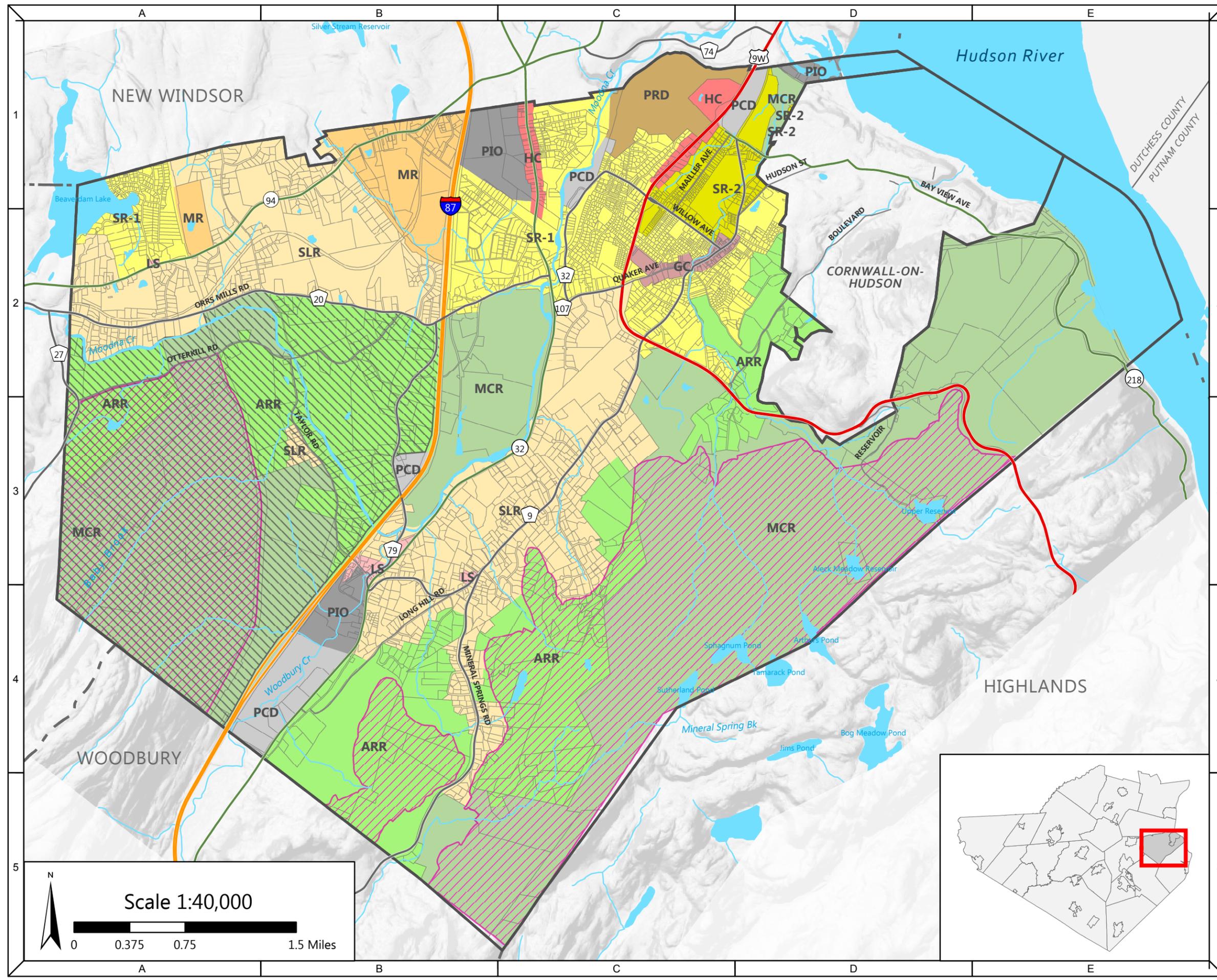
## Proposed Anchorage Sites Map

- Legend**
-  MTA North
  -  Hamlets
  -  motorway
  -  trunk & primary
  -  minor roads
  -  minor roads
  -  rails
  -  water
  -  forest & park
  -  DEC wetlands
  -  streams
  -  municipality
  -  Proposed Anchorage Sites



NATURAL RESOURCES INVENTORY

TOWN OF CORNWALL  
 Zoning and Parcels



Zoning Districts

- ARR** Agricultural Rural Residence
- LS** Local Shopping
- GC** General Commercial
- HC** Highway Commercial
- MCR** Mountain and Conservation Residence
- MR** Mixed Residence
- PCD** Planned Commercial District
- PIO** Planned Industrial / Office
- PRD** Planned Residential District
- SLR** Suburban Low-Density Residence
- SR-1** Suburban Residence
- SR-2** Suburban Residence
- Schunemunk Agricultural Scenic Overlay
- Ridge Preservation Overlay

Hydrology

- Water Bodies
- Streams
- Interstate
- Federal Highway
- State Route
- County Road

Municipal Boundaries

- Town and Village Boundary
- Other Municipal Boundary
- Parcels

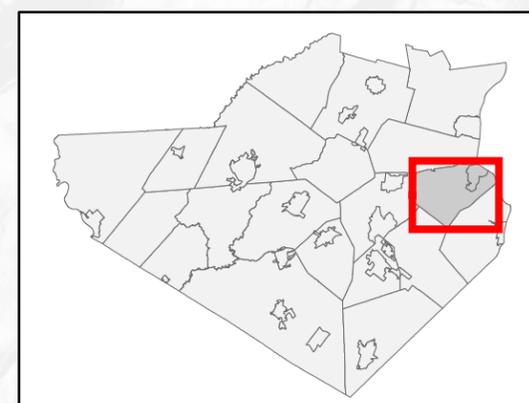
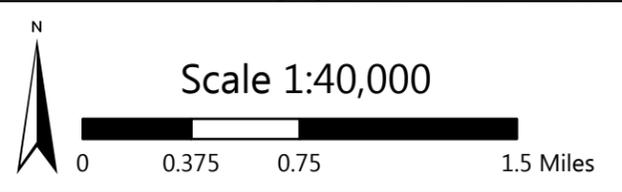
DATA SOURCES: United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018; Orange County Real Property Tax Department, 2018

The locations of tax parcel lines are approximate only and are presented solely as a general aid in understanding their approximate location in relation to other mapped features. No reliance whatsoever should be placed on the tax parcel depictions shown herein. The parcel lines are neither intended to be nor are they representations of the County's official tax maps prepared and maintained by the County Real Property Tax Department.

Creating Natural Resources Inventories (NRIs) in Orange County Communities is a partnership project between OCWA and Cornell University Department of Natural Resources, with funding from the Environmental Protection Fund through the New York State Department of Environmental Conservation Hudson River Estuary Program.

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**NATURAL RESOURCES INVENTORY**

VILLAGE OF CORNWALL-ON-HUDSON  
**Zoning and Parcels**

**Zoning Districts**

-  **CR-1** Conservation Residential
-  **CR-2** Conservation Residential (Rural)
-  **CR-3** Conservation Residential (Scenic)
-  **I** Industrial
-  **SR** Suburban Residential
-  **WR** Waterfront Recreation
-  Central Business & Shopping District
-  View Preservation District Overlay

**Hydrology**

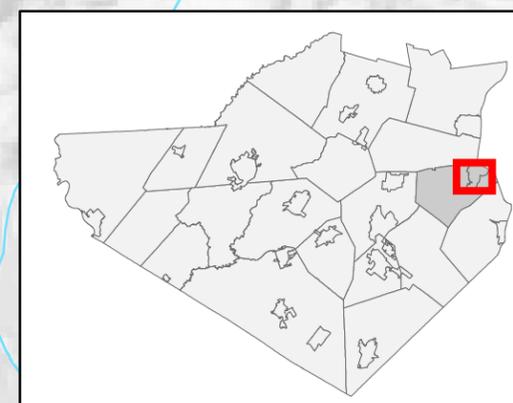
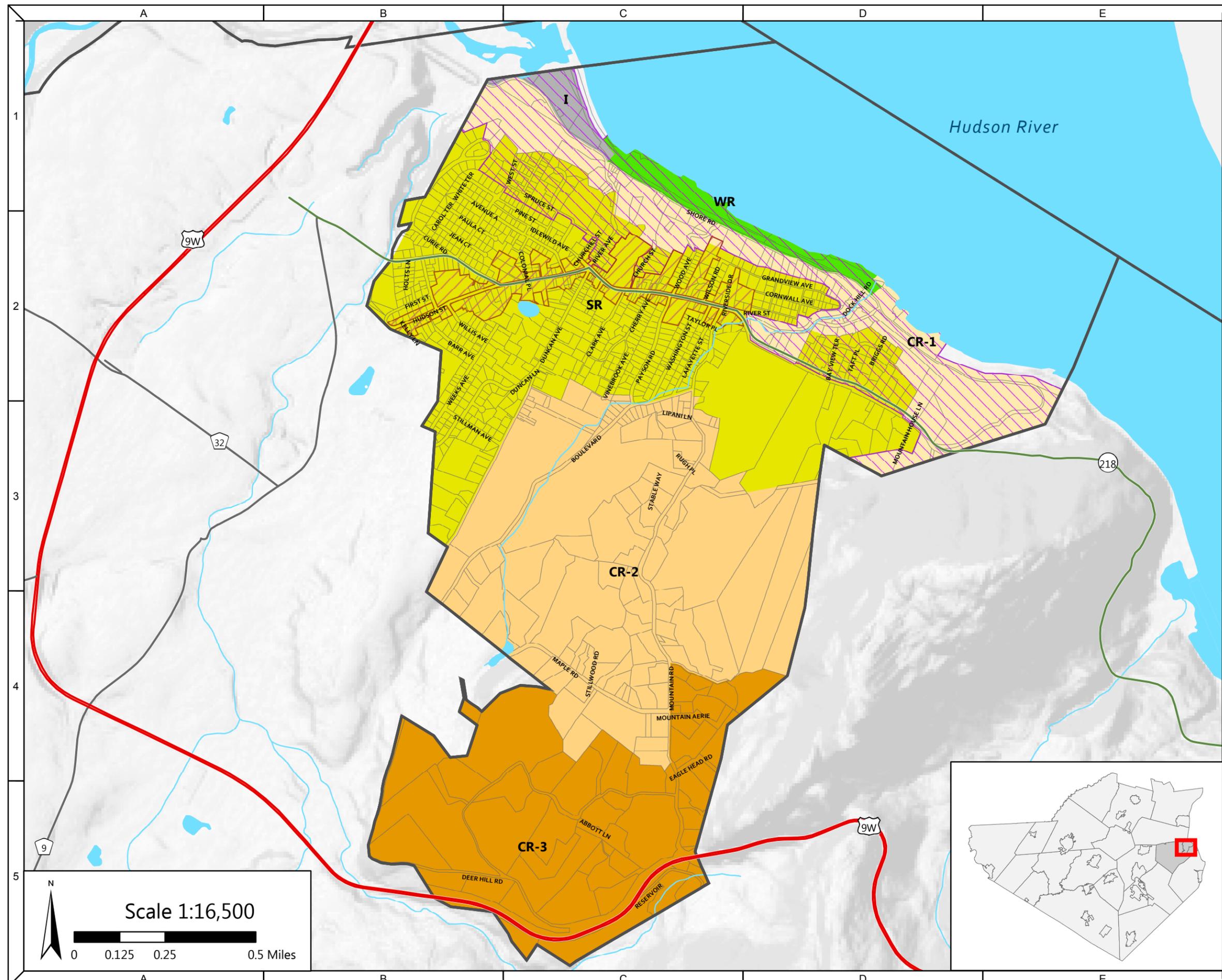
-  Water Bodies
-  Streams

**Municipal Boundaries**

-  Town and Village Boundary
-  Other Municipal Boundary
-  Parcels

**Roads**

-  Interstate
-  Federal Highway
-  State Route
-  County Road



DATA SOURCES: United States Geological Survey, 2017; New York State Dept. of Transportation, 2017; Orange County Dept. of Planning, 2018; Orange County Real Property Tax Department, 2018

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