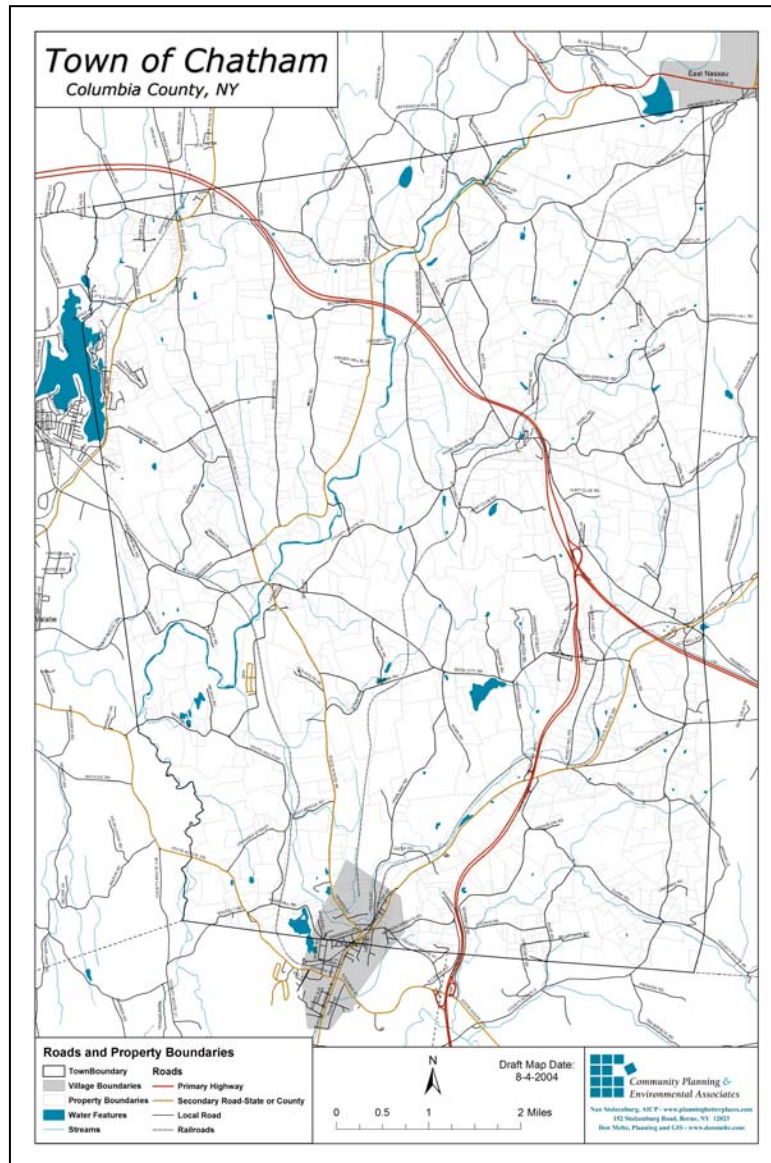


# Some samples of the maps that can be produced for a Comprehensive Plan

## Roads and Property Boundaries

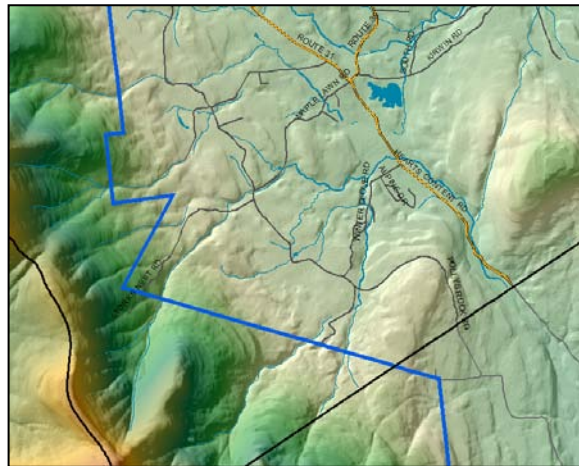
The first step in most mapping projects is to produce a base map. This map includes the municipal boundaries for the Town or village as well as surrounding municipalities. It also shows the roads, water features, and usually the property boundaries.



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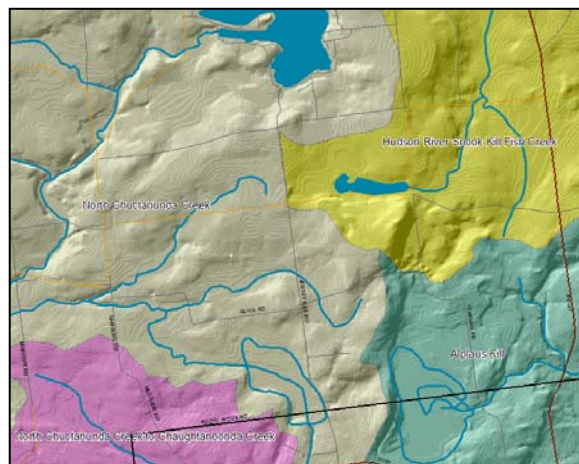
## Topography

This graphic shows a section of a map produced for the Town of Cairo. A Digital Elevation Model or DEM was used to produce a three dimensional hillshading effect. The colors represent various elevations. The small knob on the right is Roundtop, and the blue line is the Catskill Park boundary.



## Watersheds and Water Features

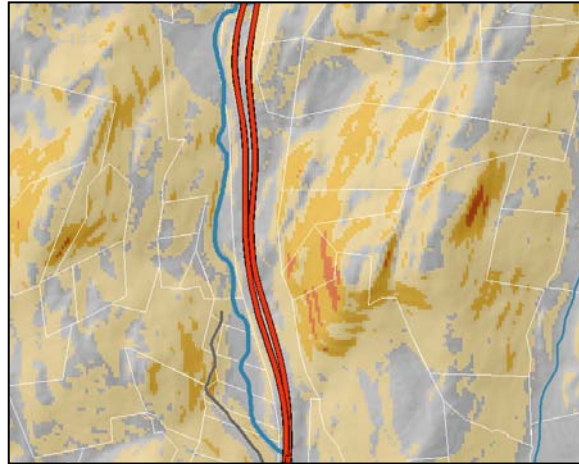
This graphic shows an area north of the Town of Charlton in Saratoga County. It includes water features and streams. The different color areas identify different watersheds, or drainage basins which feed water runoff into streams and water bodies.



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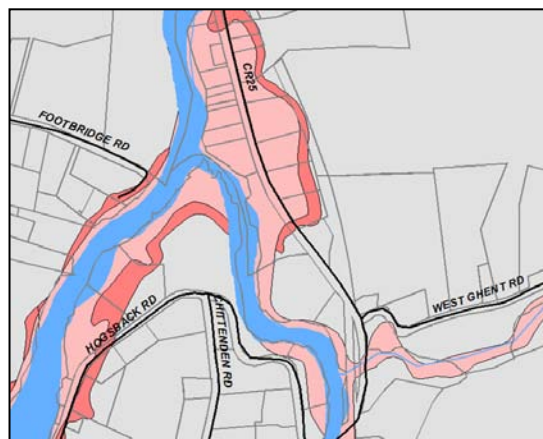
## Slope

Also produced from the DEM, this layer identifies areas in Gallatin with slopes over 15, 25, and 45% (darker colors reflect steeper slopes).



## Flood Hazard Zones

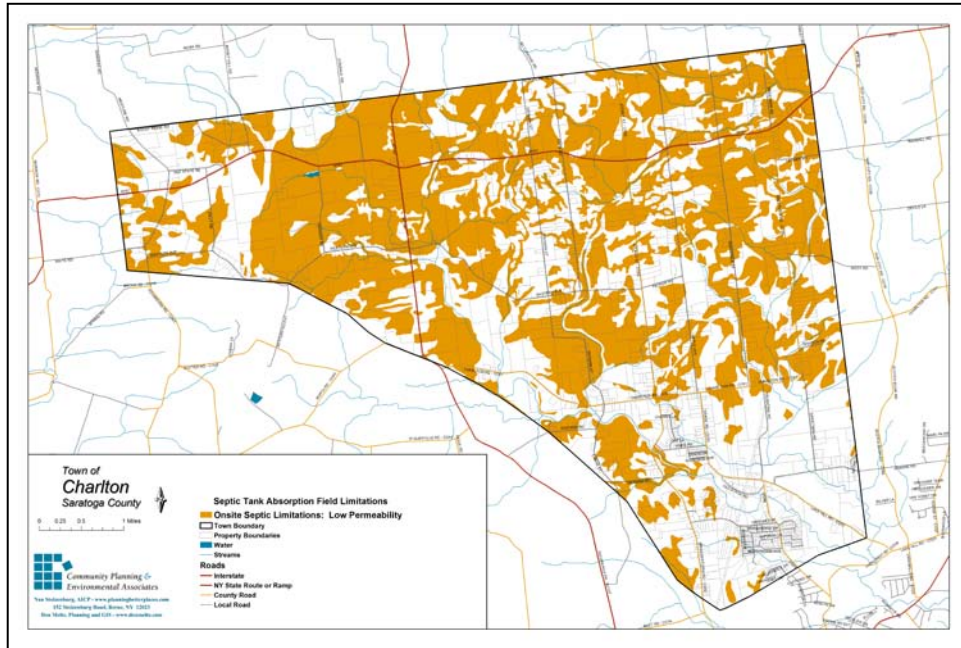
100 year and 500 year Flood Hazard Zones in the Town of Stockport are identified in this graphic. The Stockport Creek is fed by the Kinderhook Creek from the north, and the Claverack Creek from the south. 100 year hazards are light pink, and 500 year hazards are dark pink.



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## Soils

The digital soils data can produce many different layers. Here, the Town of Charlton has identified soils that are unsuitable for on-site septic systems because of low soil permeability.



## Property Class

Using the tax parcel data supplied by the State and/or County, different land uses can be identified and mapped.



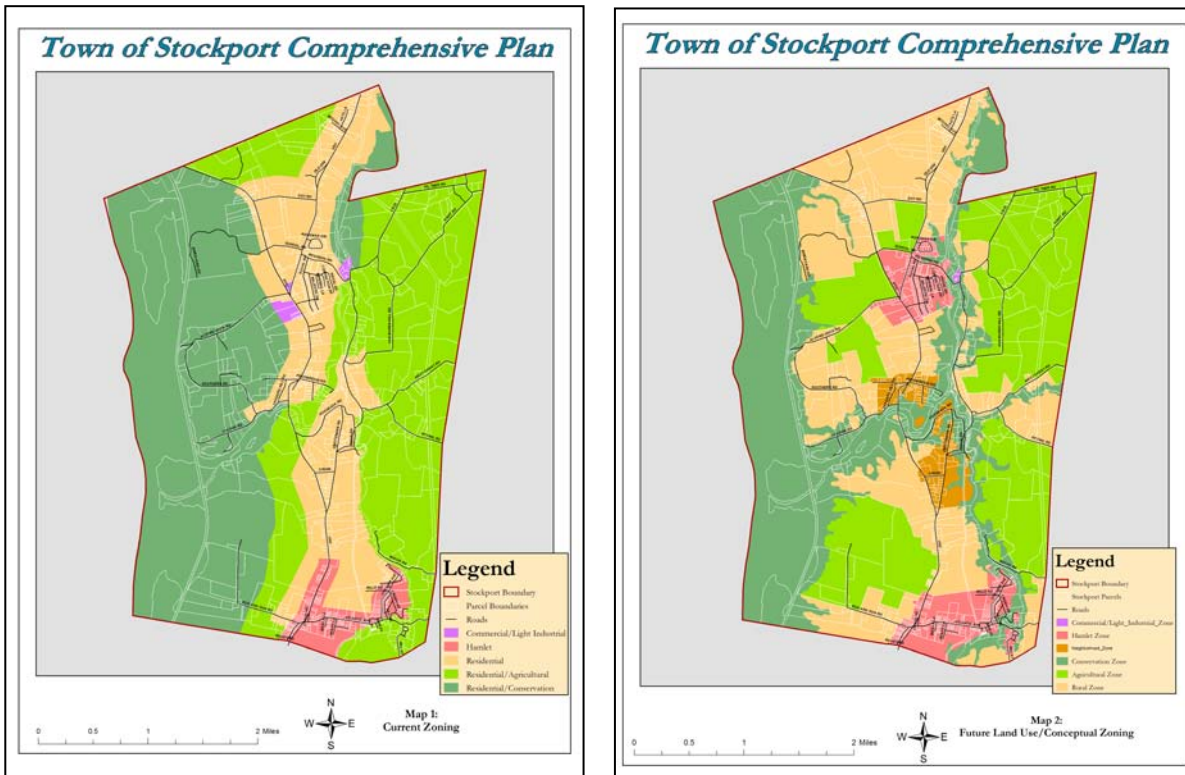
## Agriculture

Properties classified as agricultural uses by the tax assessor can be overlaid with county agricultural districts to help identify properties with active agricultural uses.



## Zoning

Zoning districts usually have to be digitized from paper maps. Often, the comprehensive plan committee will outline possible changes to the existing zoning by producing a Future Land Use map.



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## Aerial Photos

NYS produces new aerial photos for different regions of the state on a three to four year rotation. Aerial photos for Columbia County are available for 1995, 2001, and 2004. This is a close-up of the downtown area in the Village of Seneca Falls.



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## List of possible maps produced using a GIS:

The ability to produce the following maps depends largely on the availability of the GIS data needed to produce them. Some GIS layers are more readily available than others. For example, mapping of aquifers will require the services of a hydrogeologist. Mapping of tax exempt properties will require extra time consulting with the local tax assessor. Special districts and infrastructure may require digitizing hardcopy maps. The analysis maps will generally require more effort (time) to complete than the initial resource maps.

### Base

- Roads
- Property Boundaries
- Hamlet Detail
- Aerial Photos

### Topographic

- Topography
- Contours
- Slope
- Watersheds

### Water

- Water Features
- Flood Hazards
- Aquifers

### Land

- Bedrock Geology
- Surficial Geology
- Soils
  - Septic Limitations
  - Depth to Bedrock\Water Table
  - Drainage and Permeability
  - Flood and Pond Frequently

### Land Uses

- Property Class
- Agriculture (Uses and Districts)
- Farmland (Uses and Soils)
- Historic Sites
- Government Owned Land, Parks, and Recreation
- Public and Protected Land
- Fire Districts
- School Districts
- Special Districts (Water, Sewer, Lighting)
- Infrastructure
- Tax Exempt Properties
- Land Use/Land Cover

### Land Regulation

- Zoning
- Empire Zone
- Coastal Zone
- Adirondack Park
- Future Land Use (Conceptual Zoning Districts)

### Public/Committee Input

- Workshop/Survey Map
- Community Places
- Neighborhoods

### Analysis

- Historic Buildout (Year Built)
- Future Buildout
  - Existing development
  - Buildable Properties
  - Environmental Constraints
  - Developable Area
  - Potential Development
- Open Space
- Viewshed Analysis
- LESA
- Property Value
- Population Change
- Density Analysis
- Transportation Analysis
- Adult Use Analysis