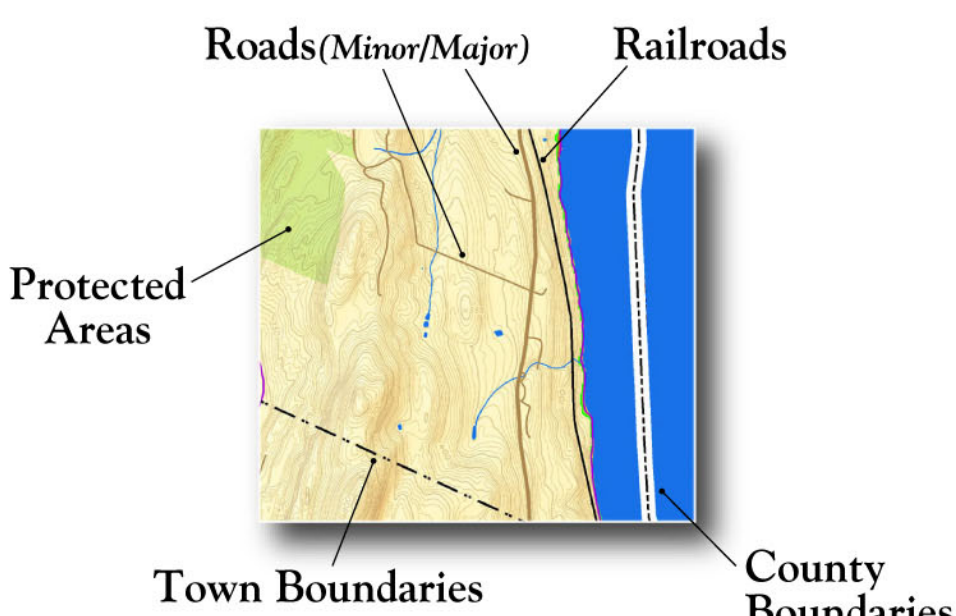


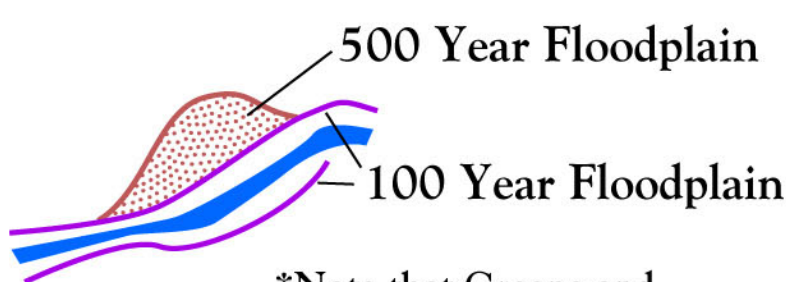
# Hudson River Estuary

*Floodplains and Potential Inundation Areas  
near the Hudson River Estuary*

## Map Features



## FEMA Floodplains



*\*Note that Greene and Putnam Counties do not currently have digital data*

## Potential Inundation Areas

20ft above Hudson River



Level with Hudson River

*These areas are mapped strictly by elevation, while the FEMA floodplains are based on hydrodynamic models. Detailed hydrodynamic models have not yet been developed for the Hudson River south of Troy.*

### **Data Sources:**

**FEMA floodplains:** The Digital Flood Data are derived from the Flood Insurance Rate Maps (FIRMs) published by the Federal Emergency Management Agency (FEMA.) The dates of mapping vary by town.

**Elevation:** The elevation was created using the USGS National Elevation Dataset (NED.) The NED has a horizontal resolution of 33 feet and a vertical resolution of 1/3 foot. Dates vary for elevation mapping.

**Roads:** NYS Office of Cyber Security & Critical Infrastructure Coordination (CSCIC), 2007.

**Railroads:** NYS Dept. of Transportation, 2001.

**County and Town Boundaries:** NYS Office of Cyber Security & Critical Infrastructure Coordination (CSCIC), 2007.

**Protected Areas:** The Nature Conservancy, 2008.

North of Poughkeepsie, floods along the estuary will likely be driven primarily by water entering from tributary rivers. In Albany, Major Flood Stage is 15 feet. Historical records indicate that the Hudson has exceeded 20-foot floods three times in the last 150 years.

South of Poughkeepsie, floods along the estuary will likely be influenced by storm surge in addition to water entering from tributary rivers. In Poughkeepsie, Major Flood Stage is 9 feet.

South of the Bear Mountain Bridge, floods along the estuary will likely be driven primarily by storm surge. Under 2000 sea-levels, models project that a Category 3 hurricane could cause a storm surge of 8 feet at Indian Point and 25 feet at the Battery in Manhattan.