

## Water Resources The water resources of NYS are based on the following factors: • Precipitation in the form of rain and snow is an important factor (an element of weather and a climate characteristic). • Landforms determine how quickly water (precipitation and run off) is absorbed. • Glaciers scoured the landscape creating water courses and storage areas. • People need water.



## Definitions

## Chapter 16

- **Hydrogeology** the study of surface and groundwater in relation to local geology.
- Hydrology the study of water movement.
- Surface waters water in rivers, streams, and lakes.
- Groundwater water that has been absorbed by the ground. It is stored in and moves through <u>aquifers</u> (porous layers of rock material).

## Facts about NYS Waters Source: NYSDEC

- Major drainage basins: 17
- EPA watersheds: 57
- Rivers and streams: 52,337 miles
- Lakes/ponds/reservoirs: 7,849 units
- Volume of surface waters: 22,164 billion gallons
- Great Lakes shoreline: 577 miles
- Atlantic shoreline: 117.5 miles
- Estuaries/bays/harbors (incl. part of LI Sound): 1,530 sq mi
- Freshwater wetlands: 2.4 million acres
- Tidal wetlands: 25,000 acres
- Long Island aquifers: underlie about 3% of NYS
   Primary water supply aquifers: underlie about 4% of NYS (upstate)
- Principal aquifers: underlie about 11% of NYS.

















