

Hydrologic Conditions – July 2023

The Hydrologic Conditions Mapper for New York State has been updated for the month of July 2023 and can be accessed at:

<http://ny.water.usgs.gov/projects/eom/>

During July, monthly precipitation totals averaged 6.6 inches, and 2.4 inches above normal quantities across the State. The highest precipitation amount (11.0 inches) was recorded in Putnam County, and the largest positive departure from normal quantities (6.4 inches) was recorded in Columbia County. The lowest precipitation amount (3.9 inches) and largest negative departure from normal quantities (-0.1 inches) were recorded in Livingston County.

Of the 32 index streamflow sites, 12 recorded normal levels, 19 recorded wet levels, 1 recorded dry levels, and none recorded very dry levels during July. As a result of the heavy rainfall from July 9 – 10, the National Weather Service (NWS) minor flood stage was exceeded at one index streamflow site, Wappinger Creek near Wappingers Falls, NY (01372500).

The New York State Department of Environmental Conservation (NYSDEC) reported that all drought regions in New York State were in normal status at the end of July.

Average lake levels of Lake Ontario during July were about 0.4 feet above long-term monthly average water levels (<https://www.glerl.noaa.gov/data/wlevels/>).

New York City reservoirs were collectively at about 92.4 percent of capacity at the end of the month; about 3.0 percent more than the normal storage capacity of about 89.4 percent (<https://www1.nyc.gov/site/dep/water/reservoir-levels.page>).

The statistics that are used to evaluate end of month groundwater conditions were not readily available for July 2023 because the USGS Groundwater Watch application was discontinued in September 2022 (<https://groundwaterwatch.usgs.gov/>). An effort to address the discontinuation of Groundwater Watch is in progress at the New York Water Science Center.

Exceedance percentages shown on the Hydrologic Conditions Mapper are calculated for individual USGS sites. This information, along with additional information from other Federal, State, and local agencies, assists the NYSDEC and the State Drought Management Task Force with evaluating regional conditions for determination of drought classifications.

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