

## CHEMUNG RIVER BASIN

## LAKES AND RESERVOIRS IN CHEMUNG RIVER BASIN

- 01517900 TIOGA LAKE.**--Lat 41°53'57", long 77°08'21", Tioga County, Hydrologic Unit 02050104, at Tioga Dam on Tioga River, 0.8 mi south of Tioga, and 1.7 mi upstream from Crooked Creek. DRAINAGE AREA, 280 mi<sup>2</sup>. PERIOD OF RECORD, November 1979 to current year. GAGE, water-stage recorder (U.S. Army Corps of Engineers datum).  
 REMARKS.--Reservoir is formed by rolled earth and rockfill dam. Flood flows are routed to Hammond Lake through a connecting channel with weir at elevation 1,101.0 ft and to Hammond Dam spillway with crest at elevation 1,131.0 ft. Storage began in November 1979. Capacity at elevation 1,131.0 ft is 62,000 acre-ft. Recreation lake elevation is 1,081.0 ft, capacity 9,500 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two service gates and low-flow by-pass system. Satellite and landline telemetry at station.  
 COOPERATION.--Records provided by U.S. Army Corps of Engineers.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 50,090 acre-ft, Apr. 3, 1993, elevation, 1,123.21 ft; minimum, 2,210 acre-ft, Oct. 25, 1980, elevation, 1,060.05 ft.  
 EXTREMES FOR CURRENT YEAR.--Maximum contents, 37,100 acre-ft, Sept. 19, elevation, 1,113.31 ft; minimum, 8,550 acre-ft, Mar. 2, elevation, 1,078.88 ft.
- 01518498 HAMMOND LAKE.**--Lat 41°53'56", long 77°08'52", Tioga County, Hydrologic Unit 02050104, at Hammond Dam on Crooked Creek, 3.0 mi upstream from mouth, and 0.8 mi southwest of Tioga. DRAINAGE AREA, 122 mi<sup>2</sup>. PERIOD OF RECORD, November 1979 to current year. GAGE, water-stage recorder (U.S. Army Corps of Engineers datum).  
 REMARKS.--Reservoir is formed by rolled earth and rockfill dam with concrete chute spillway with uncontrolled weir at elevation 1,131.0 ft. Storage began in November 1979. Capacity at elevation 1,131.0 ft is 63,000 acre-ft. Recreation lake elevation is 1,086.0 ft, capacity 8,850 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two gates through a connecting channel that discharges into Tioga Lake, and a low-flow outlet to Crooked Creek. Satellite and landline telemetry at station.  
 COOPERATION.--Records provided by U.S. Army Corps of Engineers.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 50,650 acre-ft, Apr. 3, 1993, elevation, 1,123.55 ft; minimum, 2,430 acre-ft, Oct. 24, 1980, elevation, 1,074.00 ft.  
 EXTREMES FOR CURRENT YEAR.--Maximum contents, 35,700 acre-ft, Sept. 19, elevation, 1,113.11 ft; minimum, 8,660 acre-ft, Mar. 1, elevation, 1,085.75 ft.
- 01519995 COWANESQUE LAKE.**--Lat 41°59'05", long 77°09'05", Tioga County, Hydrologic Unit 02050104, at Cowanesque Dam on Cowanesque River, 1.8 mi southwest of Lawrenceville, and 2.5 mi upstream from mouth. DRAINAGE AREA, 298 mi<sup>2</sup>. PERIOD OF RECORD, December 1979 to current year. GAGE, water-stage recorder (U.S. Army Corps of Engineers datum).  
 REMARKS.--Reservoir is formed by rolled earth and rockfill dam with concrete chute spillway with uncontrolled weir at elevation 1,117.0 ft. Storage began in December 1979. Capacity at elevation 1,117.0 ft is 89,110 acre-ft. Recreation lake elevation is 1,080.0 ft since May 1990, capacity 32,600 acre-ft. Reservoir is used for flood control, recreation, and water supply. Figures given herein represent total contents. Flow is regulated by two service gates and low-flow by-pass system. Satellite and landline telemetry at station.  
 COOPERATION.--Records provided by U.S. Army Corps of Engineers.  
 EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 84,560 acre-ft, Apr. 2, 1993, elevation, 1,114.78 ft; minimum, 65 acre-ft, June 23, 1980, elevation, 1,011.50 ft.  
 EXTREMES FOR CURRENT YEAR.--Maximum contents, 66,740 acre-ft, Sept. 19, elevation, 1,105.14 ft; minimum, 32,080 acre-ft, Mar. 7, elevation, 1,079.53 ft.

## CHEMUNG RIVER BASIN

## Lakes and Reservoirs in Chemung River Basin--Continued

MONTH-END ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS AT 2400 HRS. WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

| Date                            | Elevation<br>(feet) | Contents<br>(acre-<br>feet) | Change in<br>contents<br>(equivalent<br>in ft <sup>3</sup> /s) | Elevation<br>(feet) | Contents<br>(acre-<br>feet) | Change in<br>contents<br>(equivalent<br>in ft <sup>3</sup> /s) |
|---------------------------------|---------------------|-----------------------------|--|---------------------|-----------------------------|--|
| <u>01517900 Tioga Lake</u>      |                     |                             |  |                     |                             |  |
| Sept. 30                        | 1,081.12            | 9,560                       | ---  | 1,086.45            | 9,120                       | ---  |
| Oct. 31                         | 1,081.72            | 9,850                       | +4.7   | 1,086.55            | 9,190                       | +1.1   |
| Nov. 30                         | 1,082.80            | 10,400                      | +9.2   | 1,087.18            | 9,590                       | +6.7   |
| Dec. 31                         | 1,083.50            | 10,700                      | +4.9   | 1,087.19            | 9,600                       | +0.2   |
| CAL YR 2003                     | --                  | --                          | +0.3   | --                  | --                          | -0.2   |
| <u>01518498 Hammond Lake</u>    |                     |                             |  |                     |                             |  |
| Jan. 31                         | 1,081.42            | 9,710                       | -16.1  | 1,087.22            | 9,620                       | +0.3   |
| Feb. 29                         | 1,079.23            | 8,700                       | -17.6  | 1,085.79            | 8,690                       | -16.2  |
| Mar. 31                         | 1,081.09            | 9,540                       | +13.7  | 1,086.66            | 9,250                       | +9.1   |
| Apr. 30                         | 1,081.00            | 9,500                       | -0.7   | 1,086.58            | 9,200                       | -0.8   |
| May 31                          | 1,081.18            | 9,590                       | +1.5   | 1,086.56            | 9,190                       | -0.2   |
| June 30                         | 1,081.63            | 9,810                       | +3.7   | 1,086.48            | 9,140                       | -0.8   |
| July 31                         | 1,082.06            | 10,000                      | +3.1   | 1,086.41            | 9,100                       | -0.7   |
| Aug. 31                         | 1,080.91            | 9,460                       | -8.8   | 1,086.50            | 9,150                       | +0.8   |
| Sept. 30                        | 1,081.03            | 9,510                       | +0.8   | 1,086.44            | 9,120                       | -0.5   |
| WTR YR 2004                     | --                  | --                          | -0.1   | --                  | --                          | 0  |
| <u>01519995 Cowanesque Lake</u> |                     |                             |  |                     |                             |  |
| Sept. 30                        | 1,080.21            | 32,810                      | ---  |                     |                             |  |
| Oct. 31                         | 1,080.49            | 33,090                      | +4.6   |                     |                             |  |
| Nov. 30                         | 1,080.37            | 32,970                      | -2.0   |                     |                             |  |
| Dec. 31                         | 1,080.30            | 32,900                      | -1.1   |                     |                             |  |
| CAL YR 2003                     | --                  | --                          | +0.1   |                     |                             |  |
| Jan. 31                         | 1,080.21            | 32,810                      | -1.5   |                     |                             |  |
| Feb. 29                         | 1,080.12            | 32,720                      | -1.6   |                     |                             |  |
| Mar. 31                         | 1,080.13            | 32,730                      | +0.2   |                     |                             |  |
| Apr. 30                         | 1,080.19            | 32,790                      | +1.0   |                     |                             |  |
| May 31                          | 1,080.22            | 32,820                      | +0.5   |                     |                             |  |
| June 30                         | 1,080.20            | 32,800                      | -0.3   |                     |                             |  |
| July 31                         | 1,079.78            | 32,360                      | -7.2   |                     |                             |  |
| Aug. 31                         | 1,080.14            | 32,740                      | +6.2   |                     |                             |  |
| Sept. 30                        | 1,080.09            | 32,690                      | -0.8   |                     |                             |  |
| WTR YR 2004                     | --                  | --                          | -0.2   |                     |                             |  |