

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
June 2001**

Prepared by the
Office of the Delaware River Master
Milford, Pennsylvania

Adjusted streamflow in the upper Delaware River Basin during June was in the normal range. The maximum daily discharge of 7,590 cfs occurred on June 4. The minimum daily discharge was 2,630 cfs on June 11.

On the basis of a multi-station average, precipitation during June was 3.81 inches, which was 96 percent of the 60-year average. The maximum daily-average precipitation during June was 1.30 inches on June 17. Precipitation in the upper Delaware River Basin during the past 12 months was 5.55 inches less than the long-term average. Precipitation during June was 0.15 inches less than the long-term average for the month.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during June was 3,838 cfs, which was 120 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 4,444 cfs, or 112 percent of median (water years 1961-90).

Combined storage July 1, 2001 in Pepacton, Cannonsville, and Neversink Reservoirs was 93 percent of capacity above the point of maximum depletion. The combined storage of 251 billion gallons was 2 billion gallons less than that of one month ago and 20 billion gallons less than that of one year ago. Median storage on the first day of July in 34 years of record is 257 billion gallons.

As part of a statewide network, the USGS operates 13 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during June were below average in 9 of the wells. Water levels in 7 of the wells were trending downward in comparison to May levels. Water levels in 9 of the wells were below June 2000 levels.

HYDROLOGIC CONDITIONS IN THE UPPER DELAWARE RIVER BASIN

Compiled by the Office of the Delaware River Master, Milford, Pa.

(Preliminary data - subject to revision)

PRECIPITATION, IN INCHES

	Dec. 1940 to June 2000		July 2000 to June 2001					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
July	4.09	43.30	4.54	37.75	111	87	+45	-5.55
Aug.	3.86	39.21	3.19	33.21	83	85	-.67	-6.00
Sept.	3.83	35.35	3.74	30.02	98	85	-.09	-5.33
Oct.	3.39	31.52	2.78	26.28	82	83	-.61	-5.24
Nov.	3.85	28.13	2.45	23.50	64	84	-1.40	-4.63
Dec.	3.34	24.28	4.21	21.05	126	87	+.87	-3.23
Jan.	3.02	20.94	1.35	16.84	45	80	-1.67	-4.10
Feb.	2.65	17.92	2.26	15.49	85	86	-.39	-2.43
Mar.	3.33	15.27	4.95	13.23	149	87	+1.62	-2.04
Apr.	3.77	11.94	1.38	8.28	37	69	-2.39	-3.66
May	4.21	8.17	3.09	6.90	73	84	-1.12	-1.27
June	3.96	3.96	3.81	3.81	96	96	-.15	-.15

Note: Amount shown in cumulative columns is total from month shown to present.

STREAMFLOW, IN CFS DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-99			2001 Monthly mean	Percent of median
	Maximum	Median	Minimum		
June (observed)	15,200 (1972)	3,194	1,214 (1965)	3,838	120
June (adjusted)	16,010 (1972)	3,909	1,024 (1962)	4,444	114
July (observed)	11,220 (1945)	2,442	864 (1954)		
July (adjusted)	11,470 (1945)	2,138	391 (1965)		