

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

**June 2003**

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

Adjusted streamflow in the upper Delaware River Basin during June was excessive. The maximum daily mean discharge of 21,600 cfs occurred on June 23. The minimum daily mean discharge was 6,100 cfs on June 30.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during June was 11,240 cfs, which is 342 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 11,770 cfs, or 297 percent of median (water years 1961-90).

On the basis of an 11-station average, precipitation during June was 6.87 inches, which is 172 percent of the 62-year average. The maximum daily-average precipitation during the month was 1.66 inches on June 1. Precipitation in the upper Delaware River Basin during the past 12 months was 2.84 inches more than the long-term average. Precipitation during June was 2.88 inches more than the long-term average for the month.

Combined storage July 1, 2003 in Pepacton, Cannonsville, and Neversink Reservoirs was 100 percent of capacity above the point of maximum depletion. The combined storage of 270 billion gallons was 3 billion gallons less than that of one month ago and 29 billion gallons more than that of one year ago. Median storage on the first day of July in 36 years of record is 257 billion gallons. Cannonsville Reservoir spilled continuously throughout the month and spilled more than 18 billion gallons. Pepacton Reservoir spilled continuously until June 29 and spilled more than 13 billion gallons. Neversink Reservoir spilled on several days in June and spilled more than 3 billion gallons.

As part of a statewide network, the USGS operates 12 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during June were above average in 11 of the wells. Water levels in 11 of the wells were above May 2003 levels, and water levels in 10 of the wells were above June 2002 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 2002		July 2002 to June 2003					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
July	4.07	43.17	1.32	46.01	32	107	-2.75	+2.84
Aug.	3.83	39.10	3.31	44.69	86	114	-.52	+5.59
Sept.	3.86	35.27	5.40	41.38	140	117	+1.54	+6.11
Oct.	3.35	31.41	6.30	35.98	188	115	+2.95	+4.57
Nov.	3.79	28.06	3.96	29.68	104	106	+.17	+1.62
Dec.	3.35	24.27	4.68	25.72	140	106	+1.33	+1.45
Jan.	2.98	20.92	2.38	21.04	80	101	-.60	+1.12
Feb.	2.63	17.94	2.59	18.66	98	104	-.04	+72
Mar.	3.36	15.31	3.00	16.07	89	105	-.36	+76
Apr.	3.74	11.95	2.63	13.07	70	109	-1.11	+1.12
May	4.22	8.21	3.57	10.44	85	127	-.65	+2.23
June	3.99	3.99	6.87	6.87	172	172	+2.88	+2.88

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

### STREAMFLOW, IN CFS

DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2001			2003 Monthly mean	Percent of median
	Maximum	Median	Minimum		
June (observed)	15,200 (1972)	3,284	1,214 (1965)	11,240	342
June (adjusted)	16,010 (1972)	3,960	1,024 (1962)	11,770	297
July (observed)	11,220 (1945)	2,442	864 (1954)		
July (adjusted)	11,470 (1945)	2,138	391 (1965)		