

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
July 2004**

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

Adjusted streamflow in the upper Delaware River Basin during July was excessive. The maximum daily mean discharge of 11,900 cfs occurred on July 29. The minimum daily mean discharge was 1,590 cfs on July 3.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during July was 3,491 cfs, which is 146 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 3,980 cfs, or 174 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during July was 6.12 inches, which is 152 percent of the 63-year average. The maximum daily-average precipitation during the month was 1.43 inches on July 28. Precipitation in the upper Delaware River Basin during the past 12 months was 11.30 inches more than the long-term average. Precipitation during July was 2.09 inches more than the long-term average for the month.

Combined storage August 1, 2004 in Pepacton, Cannonsville, and Neversink Reservoirs was 94 percent of capacity above the point of maximum depletion. The combined storage of 254 billion gallons was 3 billion gallons less than that of one month ago and 5 billion gallons less than that of one year ago. Median storage on the first day of August in 37 years of record is 230 billion gallons. Neversink Reservoir spilled 7 million gallons in July.

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 July were above average in 9 of the wells. Water levels in all of the wells were below June 2004 levels, and water levels in 8 of the wells were below July 2003 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 July 2003		August 2003 to July 2004					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Aug.	3.82	43.21	4.81	54.51	126	126	+0.99	+11.30
Sept.	3.88	39.39	10.69	49.70	276	126	+6.81	+10.31
Oct.	3.39	35.51	5.94	39.01	175	110	+2.55	+3.50
Nov.	3.79	32.12	4.38	33.07	116	103	+0.59	+0.95
Dec.	3.37	28.33	4.90	28.69	145	101	+1.53	+0.36
Jan.	2.98	24.96	2.60	23.79	87	95	-0.38	-1.17
Feb.	2.64	21.98	1.41	21.19	53	96	-1.23	-0.79
Mar.	3.35	19.34	2.10	19.78	63	102	-1.25	+0.44
Apr.	3.72	15.99	3.69	17.68	99	111	-0.03	+1.69
May	4.21	12.27	4.58	13.99	109	114	+0.37	+1.72
June	4.03	8.06	3.29	9.41	82	117	-0.74	+1.35
July	4.03	4.03	6.12	6.12	152	152	+2.09	+2.09

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

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

Month	1940-2002			2004 Monthly mean	Percent of median
	Maximum	Median	Minimum		
July (observed)	11,220 (1945)	2,397	864 (1954)	3,491	146
July (adjusted)	11,470 (1945)	2,082	391 (1965)	3,980	191
August (observed)	14,230 (1955)	2,088	715 (1954)		
August (adjusted)	17,410 (1955)	1,341	364 (1964)		