

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
June 2005**

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

Adjusted streamflow in the upper Delaware River Basin during June was deficient. The maximum daily mean discharge of 3,140 cfs occurred on June 14. The minimum daily mean discharge was 1,640 cfs on June 6.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during June was 2,193 cfs, which is 64 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 1,868 cfs, or 48 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during June was 3.40 inches, which is 85 percent of the 64-year average. The maximum daily-average precipitation during the month was 0.90 inches on June 30. Precipitation in the upper Delaware River Basin during the past 12 months was 12.10 inches more than the long-term average. Precipitation during June was 0.61 inches less than the long-term average for the month.

Combined storage July 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 88 percent of capacity above the point of maximum depletion. The combined storage of 238 billion gallons was 22 billion gallons less than that of one month ago and 19 billion gallons less than that of one year ago. Median storage on the first day of July in 38 years of record is 257 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 below average in 8 of the wells. Water levels in all of the wells were below May 2005 levels, and water levels in 9 of the wells were below June 2004 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 2004		July 2004 to June 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
July	4.03	43.37	6.82	55.47	169	128	+2.79	+12.10
Aug.	3.84	39.34	7.29	48.65	190	124	+3.45	+9.31
Sept.	3.99	35.50	9.50	41.36	238	117	+5.51	+5.86
Oct.	3.43	31.51	2.45	31.86	71	101	-.98	+.35
Nov.	3.80	28.08	3.56	29.41	94	105	-.24	+1.33
Dec.	3.40	24.28	4.12	25.85	121	106	+.72	+1.57
Jan.	2.97	20.88	5.67	21.73	191	104	+2.70	+.85
Feb.	2.62	17.91	1.86	16.06	71	90	-.76	-1.85
Mar.	3.34	15.29	4.23	14.20	127	93	+.89	-1.09
Apr.	3.72	11.95	5.26	9.97	141	83	+1.54	-1.98
May	4.22	8.23	1.31	4.71	31	57	-2.91	-3.52
June	4.01	4.01	3.40	3.40	85	85	-.61	-.61

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

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

Month	1940-2003			2005 Monthly mean	Percent of median
	Maximum	Median	Minimum		
June (observed)	15,200 (1972)	3,445	1,214 (1965)	2,193	64
June (adjusted)	16,010 (1972)	3,978	1,024 (1962)	1,868	47
July (observed)	11,220 (1945)	2,442	864 (1954)		
July (adjusted)	11,470 (1945)	2,138	391 (1965)		