

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
June 2006**

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 162,000 cfs was recorded on June 28. The minimum daily mean discharge was 2,930 cfs on June 25.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during June was 20,180 cfs, which is 614 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 21,400 cfs, or 545 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during June was 10.89 inches, which is 272 percent of the 65-year average. The maximum daily-average precipitation during the month was 3.27 inches on June 28. Precipitation in the upper Delaware River Basin during the past 12 months was 9.50 inches more than the long-term average. Precipitation during June was 6.89 inches more than the long-term average for the month.

Combined storage July 1, 2006 in Pepacton, Cannonsville, and Neversink Reservoirs was 103 percent of capacity above the point of maximum depletion. The combined storage of 280 billion gallons was 7 billion gallons more than that of one month ago and 42 billion gallons more than that of one year ago. Median storage on the first day of July in 39 years of record is 257 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled 41, 56, and 5.9 billion gallons, respectively, in June.

As part of statewide networks, the USGS operates ground-water observation wells in the Pennsylvania and New Jersey parts of the Delaware River Basin. Mean water levels during June were above average in 10 of 20 observation wells. Water levels in 18 of 20 wells were below May 2006 levels, and water levels in 11 of 20 wells were above June 2005 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 2005		July 2005 to June 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
July	4.07	43.59	2.97	53.09	73	122	-1.10	+9.50
Aug.	3.89	39.52	3.57	50.12	92	127	-.32	+10.60
Sept.	4.08	35.63	1.72	46.55	42	131	-2.36	+10.92
Oct.	3.42	31.55	11.28	44.83	330	142	+7.86	+13.28
Nov.	3.79	28.13	4.23	33.55	112	119	+.44	+5.42
Dec.	3.41	24.34	2.64	29.32	77	120	-.77	+4.98
Jan.	3.02	20.93	4.90	26.68	162	127	+1.88	+5.75
Feb.	2.61	17.91	1.39	21.78	53	122	-1.22	+3.87
Mar.	3.36	15.30	1.29	20.39	38	133	-2.07	+5.09
Apr.	3.76	11.94	3.76	19.10	100	160	0	+7.16
May	4.18	8.18	4.45	15.34	106	188	+.27	+7.16
June	4.00	4.00	10.89	10.89	272	272	+6.89	+6.89

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

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

Month	1940-2005			2006 Monthly mean	Percent of median
	Maximum	Median	Minimum		
June (observed)	15,200 (1972)	3,284	1,214 (1965)	20,180	614
June (adjusted)	16,010 (1972)	3,961	1,024 (1962)	21,400	540
July (observed)	11,220 (1945)	2,442	864 (1954)		
July (adjusted)	11,470 (1945)	2,138	391 (1965)		