

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

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 39,500 cfs was recorded on July 1. The minimum daily mean discharge was 2,540 cfs on July 30.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during July was 7,582 cfs, which is 310 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 6,750 cfs, or 295 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during July was 3.16 inches, which is 78 percent of the 65-year average. The maximum daily-average precipitation during the month was 1.08 inches on July 23. Precipitation in the upper Delaware River Basin during the past 12 months was 9.70 inches more than the long-term average. Precipitation during July was 0.90 inches less than the long-term average for the month.

Combined storage August 1, 2006 in Pepacton, Cannonsville, and Neversink Reservoirs was 97 percent of capacity above the point of maximum depletion. The combined storage of 262 billion gallons was 17 billion gallons less than that of one month ago and 49 billion gallons more than that of one year ago. Median storage on the first day of August in 39 years of record is 230 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled 8.9, 17.6, and 1.0 billion gallons, respectively, in July.

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 July were above average in 19 of 20 observation wells. Water levels in 15 of 20 wells were above June 2006 levels, and water levels in 16 of 20 wells were above July 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 July 2005		August 2005 to July 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Aug.	3.89	43.58	3.57	53.28	92	122	-.32	+9.70
Sept.	4.08	39.69	1.72	49.71	42	125	-2.36	+10.02
Oct.	3.42	35.61	11.28	47.99	330	135	+7.86	+12.38
Nov.	3.79	32.19	4.23	36.71	112	114	+.44	+4.52
Dec.	3.41	28.40	2.64	32.48	77	114	-.77	+4.08
Jan.	3.02	24.99	4.90	29.84	162	119	+1.88	+4.85
Feb.	2.61	21.97	1.39	24.94	53	114	-1.22	+2.97
Mar.	3.36	19.36	1.29	23.55	38	122	-2.07	+4.19
Apr.	3.76	16.00	3.76	22.26	100	139	0	+6.26
May	4.18	12.24	4.45	18.50	106	151	+.27	+6.26
June	4.00	8.06	10.89	14.05	272	174	+6.89	+5.99
July	4.06	4.06	3.16	3.16	78	78	-.90	-.90

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		
July (observed)	11,220 (1945)	2,442	864 (1954)	7,582	310
July (adjusted)	11,470 (1945)	2,138	391 (1965)	6,750	316
August (observed)	14,230 (1955)	2,096	715 (1954)		
August (adjusted)	17,410 (1955)	1,380	364 (1964)		