

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

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

Adjusted streamflow in the upper Delaware River Basin during May was in the normal range. The maximum daily mean discharge of 9,190 cfs was recorded on May 17. The minimum daily mean discharge was 2,900 cfs on May 8.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during May was 5,575 cfs, which is 80 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 6,181 cfs, or 75 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during May was 4.45 inches, which is 106 percent of the 65-year average. The maximum daily-average precipitation during the month was 1.28 inches on May 12. Precipitation in the upper Delaware River Basin during the past 12 months was 1.85 inches more than the long-term average. Precipitation during May was 0.27 inches more than the long-term average for the month.

Combined storage June 1, 2006 in Pepacton, Cannonsville, and Neversink Reservoirs was 101 percent of capacity above the point of maximum depletion. The combined storage of 272 billion gallons was 0.6 billion gallons more than that of one month ago and 12 billion gallons more than that of one year ago. Median storage on the first day of June in 39 years of record is 269 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled 5.6, 11.1, and 1.3 billion gallons, respectively, in May.

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 May were below average in 14 of 20 observation wells. Water levels in 11 of 20 wells were above April 2006 levels, and water levels in 11 of 20 wells were below May 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 May 2005		June 2005 to May 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
June	4.01	43.60	3.25	45.45	81	104	-0.76	+1.85
July	4.07	39.59	2.97	42.20	73	107	-1.10	+2.61
Aug.	3.89	35.52	3.57	39.23	92	110	-0.32	+3.71
Sept.	4.08	31.63	1.72	35.66	42	113	-2.36	+4.03
Oct.	3.42	27.55	11.28	33.94	330	123	+7.86	+6.39
Nov.	3.79	24.13	*4.23	22.66	112	94	+0.44	-1.47
Dec.	3.41	20.34	2.64	18.43	77	91	-0.77	-1.91
Jan.	3.02	16.93	4.90	15.79	162	93	+1.88	-1.14
Feb.	2.61	13.91	1.39	10.89	53	78	-1.22	-3.02
Mar.	3.36	11.30	1.29	9.50	38	84	-2.07	-1.80
Apr.	3.76	7.94	3.76	8.21	100	103	0	+0.27
May	4.18	4.18	4.45	4.45	106	106	+0.27	+0.27

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

* Revised since last month.

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

Month	1940-2004			2006 Monthly mean	Percent of median
	Maximum	Median	Minimum		
May (observed)	16,090 (1943)	6,978	2,215 (1965)	5,575	80
May (adjusted)	18,970 (1989)	8,211	2,944 (1941)	6,181	75
June (observed)	15,200 (1972)	3,368	1,214 (1965)		
June (adjusted)	16,010 (1972)	3,973	1,024 (1962)		