

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
April 2008**

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

Adjusted streamflow in the upper Delaware River Basin during April was in the normal range. The maximum daily mean discharge of 21,200 cfs was recorded on April 5. The minimum daily mean discharge was 3,010 cfs on April 27.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during April was 9,720 cfs, which is 85 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 10,390 cfs, or 81 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during April was 3.10 inches, which is 82 percent of the 67-year average. The maximum daily-average precipitation during the month was 0.80 inches on April 29. Precipitation in the upper Delaware River Basin during the past 12 months was 6.35 inches more than the long-term average. Precipitation during April was 0.68 inches less than the long-term average for the month.

Combined storage on May 1, 2008 in Pepacton, Cannonsville, and Neversink Reservoirs was 98 percent of capacity above the point of maximum depletion. The combined storage of 266 billion gallons was 6 billion gallons less than that of one month ago and 5 billion gallons less than that of one year ago. Median combined storage on the first day of May in 40 years of record is 271 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled a total of 8.7, 6.9, and 1.9 billion gallons, respectively, during the month.

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 April were below average in 14 of 20 observation wells. Water levels in 16 of the wells were below March 2008 levels, and water levels in 19 of the wells were below April 2007 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 Apr. 2007		May 2007 to April 2008					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
May	4.18	43.84	1.68	50.19	40	114	-2.50	+6.35
June	4.12	39.66	3.35	48.51	81	122	-.77	+8.85
July	4.04	35.54	5.76	45.16	143	127	+1.72	+9.62
Aug.	3.92	31.50	3.53	39.40	90	125	-.39	+7.90
Sept.	4.06	27.58	2.88	35.87	71	130	-1.18	+8.29
Oct.	3.56	23.52	6.82	32.99	192	140	+3.26	+9.47
Nov.	3.81	19.96	4.15	26.17	109	131	+.34	+6.21
Dec.	3.38	16.15	4.88	22.02	144	136	+1.50	+5.87
Jan.	3.06	12.77	1.79	17.14	58	134	-1.27	+4.37
Feb.	2.60	9.71	6.13	15.35	236	158	+3.53	+5.64
Mar.	3.33	7.11	6.12	9.22	184	130	+2.79	+2.11
Apr.	3.78	3.78	3.10	3.10	82	82	-.68	-.68

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

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

Month	1940-2007			2008 Monthly mean	Percent of median
	Maximum	Median	Minimum		
April (observed)	31,560 (1940)	11,385	3,322 (1985)	9,720	85
April (adjusted)	33,010 (1940)	13,810	3,847 (1946)	10,390	75
May (observed)	16,090 (1943)	6,792	2,215 (1965)		
May (adjusted)	18,970 (1989)	8,026	2,944 (1941)		