

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

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

Adjusted streamflow in the upper Delaware River Basin during May was deficient. The maximum daily mean discharge of 5,850 cfs was recorded on May 18. The minimum daily mean discharge was 2,270 cfs on May 31.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during May was 3,877 cfs, which is 57 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 4,578 cfs, or 56 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during May was 2.68 inches, which is 65 percent of the 67-year average. The maximum daily-average precipitation during the month was 0.86 inches on May 17. Precipitation in the upper Delaware River Basin during the past 12 months was 7.54 inches more than the long-term average. Precipitation during May was 1.47 inches less than the long-term average for the month.

Combined storage on June 1, 2008 in Pepacton, Cannonsville, and Neversink Reservoirs was 96 percent of capacity above the point of maximum depletion. The combined storage of 261 billion gallons was 5 billion gallons less than that of one month ago and 2 billion gallons less than that of one year ago. Median combined storage on the first day of June in 41 years of record is 269 billion gallons.

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 10 of 20 observation wells. Water levels in 14 of the wells were below April 2008 levels, and water levels in 11 of the wells were below May 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 May 2007		June 2007 to May 2008					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
June	4.12	43.81	3.35	51.35	81	117	-.77	+7.54
July	4.04	39.69	5.76	48.00	143	121	+1.72	+8.31
Aug.	3.92	35.65	3.53	42.24	90	118	-.39	+6.59
Sept.	4.06	31.73	2.88	38.71	71	122	-1.18	+6.98
Oct.	3.56	27.67	6.82	35.83	192	129	+3.26	+8.16
Nov.	3.81	24.11	*4.31	29.01	113	120	+.50	+4.90
Dec.	3.38	20.30	4.88	24.70	144	122	+1.50	+4.40
Jan.	3.06	16.92	1.79	19.82	58	117	-1.27	+2.90
Feb.	2.60	13.86	6.13	18.03	236	130	+3.53	+4.17
Mar.	3.33	11.26	6.12	11.90	184	106	+2.79	+.64
Apr.	3.78	7.93	3.10	5.78	82	73	-.68	-2.15
May	4.15	4.15	2.68	2.68	65	65	-1.47	-1.47

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	1940-2007			2008 Monthly mean	Percent of median
	Maximum	Median	Minimum		
May (observed)	16,090 (1943)	6,792	2,215 (1965)	3,877	57
May (adjusted)	18,970 (1989)	8,026	2,944 (1941)	4,578	57
June (observed)	20,130 (2006)	3,284	1,214 (1965)		
June (adjusted)	21,350 (1972)	3,961	1,024 (1962)		