

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
May 2009**

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 18,200 cfs was recorded on May 18. The minimum daily mean discharge was 2,390 cfs on May 1.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during May was 5,803 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 7,021 cfs, or 85 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during May was 5.66 inches, which is 137 percent of the 68-year average. The maximum daily-average precipitation during the month was 1.42 inches on May 17. Precipitation in the upper Delaware River Basin during the past 12 months was 0.29 inches less than the long-term average. Precipitation during May was 1.53 inches more than the long-term average for the month.

Combined storage June 1, 2009 in Pepacton, Cannonsville, and Neversink Reservoirs was 101 percent of capacity above the point of maximum depletion. The combined storage of 273 billion gallons was 7 billion gallons more than that of one month ago and 13 billion gallons more than that of one year ago. Median storage on the first day of June in 42 years of record is 269 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled 2.2, 3.6 and 0.4 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 May were below average in 14 of 20 observation wells. Water levels in 16 of the wells were above April 2009 levels, and water levels in 14 of the wells were below May 2008 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 2008		June 2008 to May 2009					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
June	4.10	43.95	3.43	43.66	84	99	-0.67	-0.29
July	4.07	39.85	6.00	40.23	147	101	+1.93	+0.38
Aug.	3.91	35.78	2.49	34.23	64	96	-1.42	-1.55
Sept.	4.04	31.87	5.04	31.74	125	100	+1.00	-0.13
Oct.	3.61	27.83	4.33	26.70	120	96	+0.72	-1.13
Nov.	3.82	24.22	2.18	22.37	57	92	-1.64	-1.85
Dec.	3.41	20.40	*6.17	20.19	181	99	+2.76	-0.21
Jan.	3.05	16.99	2.52	14.02	83	83	-0.53	-2.97
Feb.	2.65	13.94	1.30	11.50	49	82	-1.35	-2.44
Mar.	3.38	11.29	2.32	10.20	69	90	-1.06	-1.09
Apr.	3.78	7.91	2.22	7.88	59	100	-1.56	-0.03
May	4.13	4.13	5.66	5.66	137	137	+1.53	+1.53

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			2009 Monthly mean	Percent of median
	Maximum	Median	Minimum		
May (observed)	16,090 (1943)	6,792	2,215 (1965)	5,803	85
May (adjusted)	18,970 (1989)	8,026	2,944 (1941)	7,021	87
June (observed)	20,130 (2006)	3,284	1,214 (1965)		
June (adjusted)	21,350 (2006)	3,961	1,024 (1962)		