

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
May 2010**

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 5,380 cfs was recorded on May 1. The minimum daily mean discharge was 2,250 cfs on May 30.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during May was 3,669 cfs, which is 54 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 4,491 cfs, or 55 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during May was 2.71 inches, which is 65 percent of the 69-year average. The maximum daily-average precipitation during the month was 0.54 inches on May 12. Precipitation in the upper Delaware River Basin during the past 12 months was 6.01 inches more than the long-term average. Precipitation during May was 1.45 inches less than the long-term average for the month.

Combined storage June 1, 2010 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 3 billion gallons less than that of one month ago and 7 billion gallons less than that of one year ago. Median storage on the first day of June in 43 years of record is 269 billion gallons. Cannonsville Reservoir spilled a total of 1.1 billion gallons 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 above average in 11 of 20 observation wells. Water levels in 19 of the wells were below April 2010 levels, and water levels in 10 of the wells were above May 2009 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 2009		June 2009 to May 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
June	4.09	43.96	7.08	49.97	173	114	+2.99	+6.01
July	4.10	39.87	6.49	42.89	158	108	+2.39	+3.02
Aug.	3.89	35.77	7.03	36.40	181	102	+3.14	+6.3
Sept.	4.05	31.88	2.23	29.37	55	92	-1.82	-2.51
Oct.	3.62	27.83	4.82	27.14	133	98	+1.20	-.69
Nov.	3.80	24.21	*1.62	22.32	43	92	-2.18	-1.89
Dec.	3.45	20.41	4.28	20.70	124	101	+.83	+.29
Jan.	3.05	16.96	2.71	16.42	89	97	-.34	-.54
Feb.	2.64	13.91	3.00	13.71	114	99	+.36	-.20
Mar.	3.36	11.27	5.11	10.71	152	95	+1.75	-.56
Apr.	3.75	7.91	2.89	5.60	77	71	-.86	-2.31
May	4.16	4.16	2.71	2.71	65	65	-1.45	-1.45

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	1940-2008			2010 Monthly mean	Percent of median
	Maximum	Median	Minimum		
May (observed)	16,090 (1943)	6,743	2,215 (1965)	3,669	54
May (adjusted)	18,970 (1989)	8,015	2,944 (1941)	4,491	56
June (observed)	20,130 (2006)	3,199	1,214 (1965)		
June (adjusted)	21,350 (2006)	3,948	1,024 (1962)		