

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

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

Adjusted streamflow in the upper Delaware River Basin during July was deficient. The maximum daily mean discharge of 2,760 cfs was recorded on July 24. The minimum daily mean discharge was 1,440 cfs on July 30.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during July was 1,912 cfs, which is 76 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 1,273 cfs, or 56 percent of median (water years 1971-2000).

On the basis of a 10-station average, precipitation during July was 4.12 inches, which is 100 percent of the 69-year average. The maximum daily-average precipitation during the month was 1.15 inches on July 24. Precipitation in the upper Delaware River Basin during the past 12 months was 0.68 inches more than the long-term average. Precipitation during July was 0.01 inches less than the long-term average for the month.

Combined storage August 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 81 percent of capacity above the point of maximum depletion. The combined storage of 219 billion gallons was 28 billion gallons less than that of one month ago and 51 billion gallons less than that of one year ago. Median storage on the first day of August in 43 years of record is 233 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 July were below average in 13 of 21 observation wells. Water levels in 20 of the wells were below June 2010 levels, and water levels in 13 of the wells were below July 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 July 2009		August 2009 to July 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Aug.	3.89	44.04	7.03	44.72	181	102	+3.14	+.68
Sept.	4.05	40.15	2.23	37.69	55	94	-1.82	-2.46
Oct.	3.62	36.10	4.82	35.46	133	98	+1.20	-.64
Nov.	3.80	32.48	1.62	30.64	43	94	-2.18	-1.84
Dec.	3.45	28.68	4.35	29.02	126	101	+.90	+.34
Jan.	3.05	25.23	2.90	24.67	95	98	-.15	-.56
Feb.	2.64	22.18	3.00	21.77	114	98	+.36	-.41
Mar.	3.36	19.54	5.11	18.77	152	96	+1.75	-.77
Apr.	3.75	16.18	2.89	13.66	77	84	-.86	-2.52
May	4.16	12.43	2.71	10.77	65	87	-1.45	-1.66
June	4.14	8.27	3.94	8.06	95	97	-.20	-.21
July	4.13	4.13	4.12	4.12	100	100	-.01	-.01

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

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

Month	1940-2009			2010 Monthly mean	Percent of median
	Maximum	Median	Minimum		
July (observed)	11,220 (1945)	2,504	864 (1954)	1,912	76
July (adjusted)	11,470 (1945)	2,234	391 (1965)	1,273	57
August (observed)	14,230 (1955)	2,129	715 (1954)		
August (adjusted)	17,410 (1955)	1,545	364 (1964)		