

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

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

Adjusted streamflow in the upper Delaware River Basin during August was in the normal range. The maximum daily mean discharge of 7,850 cfs was recorded on August 24. The minimum daily mean discharge was 1,600 cfs on August 1.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during August was 2,475 cfs, which is 116 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 1,900 cfs, or 120 percent of median (water years 1971-2000).

On the basis of a 10-station average, precipitation during August was 5.10 inches, which is 129 percent of the 69-year average. The maximum daily-average precipitation during the month was 1.38 inches on August 23. Precipitation in the upper Delaware River Basin during the past 12 months was 0.58 inches less than the long-term average. Precipitation during August was 1.16 inches more than the long-term average for the month.

Combined storage September 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 68 percent of capacity above the point of maximum depletion. The combined storage of 185 billion gallons was 34 billion gallons less than that of one month ago and 73 billion gallons less than that of one year ago. Median storage on the first day of September in 43 years of record is 205 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 August were below average in 14 of 21 observation wells. Water levels in all of the wells were below July 2010 levels, and water levels in 16 of the wells were below August 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 Aug. 2009		September 2009 to August 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Sept.	4.05	44.09	2.23	43.51	55	99	-1.82	-.58
Oct.	3.62	40.04	4.82	41.28	133	103	+1.20	+1.20
Nov.	3.80	36.42	1.62	36.46	43	100	-2.18	+0.04
Dec.	3.45	32.62	4.35	34.84	126	107	+.90	+2.22
Jan.	3.05	29.17	2.90	30.49	95	105	-.15	+1.32
Feb.	2.64	26.12	*3.47	27.59	131	106	+.83	+1.47
Mar.	3.36	23.48	*5.36	24.12	160	103	+2.00	+.64
Apr.	3.75	20.12	2.89	18.76	77	93	-.86	-1.36
May	4.16	16.37	2.71	15.87	65	97	-1.45	-.50
June	4.14	12.21	3.94	13.16	95	108	-.20	+.95
July	4.13	8.07	4.12	9.22	100	114	-.01	+1.15
Aug.	3.94	3.94	5.10	5.10	129	129	+1.16	+1.16

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	1940-2009			2010 Monthly mean	Percent of median
	Maximum	Median	Minimum		
August (observed)	14,230 (1955)	2,129	715 (1954)	2,475	116
August (adjusted)	17,410 (1955)	1,545	364 (1964)	1,900	123
September (observed)	17,200 (2004)	2,016	892 (1941)		
September (adjusted)	18,310 (2004)	1,531	324 (1964)		