

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

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

Adjusted streamflow in the upper Delaware River Basin during September was in the normal range. The maximum daily mean discharge of 2,250 cfs was recorded on September 12. The minimum daily mean discharge was 1,450 cfs on September 30.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during September was 1,954 cfs, which is 97 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 1,684 cfs, or 112 percent of median (water years 1971-2000).

On the basis of a 10-station average, precipitation during September was 2.40 inches, which is 60 percent of the 69-year average. The maximum daily-average precipitation during the month was 0.58 inches on September 28. Precipitation in the upper Delaware River Basin during the past 12 months was 0.42 inches less than the long-term average. Precipitation during September was 1.63 inches less than the long-term average for the month.

Combined storage October 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 60 percent of capacity above the point of maximum depletion. The combined storage of 163 billion gallons was 22 billion gallons less than that of one month ago and 74 billion gallons less than that of one year ago. Median storage on the first day of October in 43 years of record is 180 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 September were below average in 16 of 21 observation wells. Water levels in 20 of the wells were below August 2010 levels, and water levels in 18 of the wells were below September 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 Sept. 2009		October 2009 to September 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Oct.	3.62	44.07	4.82	43.65	133	99	+1.20	-.42
Nov.	3.80	40.45	1.62	38.83	43	96	-2.18	-1.62
Dec.	3.45	36.65	4.35	37.21	126	102	+ .90	+ .56
Jan.	3.05	33.20	2.90	32.86	95	99	-.15	-.34
Feb.	2.64	30.15	3.47	29.96	131	99	+ .83	-.19
Mar.	3.36	27.51	5.36	26.49	160	96	+2.00	-1.02
Apr.	3.75	24.15	*2.86	21.13	76	87	-.89	-3.02
May	4.16	20.40	2.71	18.27	65	90	-1.45	-2.13
June	4.14	16.24	3.94	15.56	95	96	-.20	-.68
July	4.13	12.10	4.12	11.62	100	96	-.01	-.48
Aug.	3.94	7.97	5.10	7.50	129	94	+1.16	-.47
Sept.	4.03	4.03	2.40	2.40	60	60	-1.63	-1.63

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		
September (observed)	17,200 (2004)	2,016	892 (1941)	1,954	97
September (adjusted)	18,310 (2004)	1,531	324 (1964)	1,684	110
October (observed)	15,690 (1955)	2,472	807 (1941)		
October (adjusted)	18,570 (1955)	2,452	322 (1964)		