

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

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

Adjusted streamflow in the upper Delaware River Basin during November was in the normal range. The maximum daily mean discharge of 8,990 cfs was recorded on November 1. The minimum daily mean discharge was 2,980 cfs on November 19.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during November was 5,026 cfs, which is 105 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 5,394 cfs, or 85 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during November was 1.50 inches, which is 39 percent of the 68-year average. The maximum daily-average precipitation during the month was 1.16 inches on November 20. Precipitation in the upper Delaware River Basin during the past 12 months was 5.59 inches more than the long-term average. Precipitation during November was 2.30 inches less than the long-term average for the month.

Combined storage December 1, 2009 in Pepacton, Cannonsville, and Neversink Reservoirs was 89 percent of capacity above the point of maximum depletion. The combined storage of 240 billion gallons was 2 billion gallons less than that of one month ago and 16 billion gallons more than that of one year ago. Median storage on the first day of December in 42 years of record is 183 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 November were above average in 17 of 20 observation wells. Water levels in 19 of the wells were above October 2009 levels, and water levels in 18 of the wells were above November 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 Nov. 2008		December 2008 to November 2009					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Dec.	3.41	43.95	6.17	49.54	181	113	+2.76	+5.59
Jan.	3.05	40.54	2.91	43.37	95	107	-.14	+2.83
Feb.	2.65	37.49	1.51	40.46	57	108	-1.14	+2.97
Mar.	3.38	34.84	2.53	38.95	75	112	-.85	+4.11
Apr.	3.78	31.46	2.36	36.42	62	116	-1.42	+4.96
May	4.13	27.68	6.14	34.06	149	123	+2.01	+6.38
June	4.09	23.55	*7.08	27.92	173	119	+2.99	+4.37
July	4.10	19.46	6.32	20.84	154	107	+2.22	+1.38
Aug.	3.89	15.36	6.12	14.52	157	95	+2.23	-.84
Sept.	4.05	11.47	2.22	8.40	55	73	-1.83	-3.07
Oct.	3.62	7.42	4.68	6.18	129	83	+1.06	-1.24
Nov.	3.80	3.80	1.50	1.50	39	39	-2.30	-2.30

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			2009 Monthly mean	Percent of median
	Maximum	Median	Minimum		
November (observed)	13,010 (2003)	4,798	995 (1964)	5,026	105
November (adjusted)	16,160 (1972)	6,455	390 (1964)	5,394	84
December (observed)	18,830 (1996)	5,111	1,665 (1998)		
December (adjusted)	20,880 (1973)	6,772	1,624 (1998)		