

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

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 8,080 cfs was recorded on November 18. The minimum daily mean discharge was 3,070 cfs on November 16.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during November was 4,790 cfs, which is 101 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 6,592 cfs, or 104 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during November was 2.83 inches, which is 75 percent of the 69-year average. The maximum daily-average precipitation during the month was 1.01 inches on November 17. Precipitation in the upper Delaware River Basin during the past 12 months was 5.32 inches more than the long-term average. Precipitation during November was 0.94 inches less than the long-term average for the month.

Combined storage December 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 85 percent of capacity above the point of maximum depletion. The combined storage of 230 billion gallons was 16 billion gallons more than that of one month ago and 10 billion gallons less than that of one year ago. Median storage on the first day of December in 43 years of record is 186 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 13 of 21 observation wells. Water levels in 16 of the wells were above October 2010 levels, and water levels in 17 of the wells were below November 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 Nov. 2009		December 2009 to November 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Dec.	3.45	44.06	4.35	49.38	126	112	+0.90	+5.32
Jan.	3.05	40.61	2.90	45.03	95	111	-0.15	+4.42
Feb.	2.64	37.56	3.47	42.13	131	112	+0.83	+4.57
Mar.	3.36	34.92	5.36	38.66	160	111	+2.00	+3.74
Apr.	3.75	31.56	2.86	33.30	76	106	-0.89	+1.74
May	4.16	27.81	3.02	30.44	73	109	-1.14	+2.63
June	4.14	23.65	*3.90	27.42	94	116	-0.24	+3.77
July	4.13	19.51	4.12	23.52	100	121	-0.01	+4.01
Aug.	3.94	15.38	5.10	19.40	129	126	+1.16	+4.02
Sept.	4.03	11.44	2.40	14.30	60	125	-1.63	+2.86
Oct.	3.64	7.41	9.07	11.90	249	161	+5.43	+4.49
Nov.	3.77	3.77	2.83	2.83	75	75	-0.94	-0.94

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		
November (observed)	13,010 (2003)	4,764	995 (1964)	4,790	101
November (adjusted)	16,160 (1972)	6,359	390 (1964)	6,592	104
December (observed)	18,830 (1996)	5,389	1,665 (1998)		
December (adjusted)	20,880 (1973)	6,790	1,624 (1998)		