

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

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

Adjusted streamflow in the upper Delaware River Basin during December was in the normal range. The maximum daily mean discharge of 34,900 cfs was recorded on December 2. The minimum daily mean discharge was 3,570 cfs on December 31.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during December was 8,947 cfs, which is 166 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 10,380 cfs, or 168 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during December was 3.42 inches, which is 99 percent of the 69-year average. The maximum daily-average precipitation during the month was 1.45 inches on December 2. Precipitation in the upper Delaware River Basin during the past 12 months was 5.05 inches more than the long-term average. Precipitation during December was 0.04 inches less than the long-term average for the month.

Combined storage January 1, 2011 in Pepacton, Cannonsville, and Neversink Reservoirs was 88 percent of capacity above the point of maximum depletion. The combined storage of 239 billion gallons was 9 billion gallons more than that of one month ago and 7 billion gallons less than that of one year ago. Median storage on the first day of January in 43 years of record is 225 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 December were below average in 12 of 21 observation wells. Water levels in 15 of the wells were above November 2010 levels, and water levels in 17 of the wells were below December 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 Dec. 2009		January 2010 to December 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Jan.	3.05	44.07	2.90	49.12	95	111	-.15	+5.05
Feb.	2.64	41.02	3.47	46.22	131	113	+.83	+5.20
Mar.	3.36	38.38	5.36	42.75	160	111	+2.00	+4.37
Apr.	3.75	35.02	2.86	37.39	76	107	-.89	+2.37
May	4.16	31.27	3.02	34.53	73	110	-1.14	+3.26
June	4.14	27.11	3.90	31.51	94	116	-.24	+4.40
July	4.13	22.97	*4.49	27.61	109	120	+.36	+4.64
Aug.	3.94	18.84	*5.40	23.12	137	123	+1.46	+4.28
Sept.	4.03	14.90	2.40	17.72	60	119	-1.63	+2.82
Oct.	3.64	10.87	9.07	15.32	249	141	+5.43	+4.45
Nov.	3.77	7.23	2.83	6.25	75	86	-.94	-.98
Dec.	3.46	3.46	3.42	3.42	99	99	-.04	-.04

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		
December (observed)	18,830 (1996)	5,389	1,665 (1998)	8,947	166
December (adjusted)	20,880 (1973)	6,790	1,624 (1998)	10,380	153
January (observed)	16,060 (2006)	5,743	1,318 (1981)		
January (adjusted)	21,330 (1996)	6,074	1,064 (1981)		