

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

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 13,100 cfs was recorded on December 28. The minimum daily mean discharge was 4,050 cfs on December 1.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during December was 7,503 cfs, which is 147 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 8,450 cfs, or 137 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during December was 4.28 inches, which is 124 percent of the 69-year average. The maximum daily-average precipitation during the month was 1.08 inches on December 3. Precipitation in the upper Delaware River Basin during the past 12 months was 3.83 inches more than the long-term average. Precipitation during December was 0.83 inches more than the long-term average for the month.

Combined storage January 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 91 percent of capacity above the point of maximum depletion. The combined storage of 246 billion gallons was 6 billion gallons more than that of one month ago and 25 billion gallons less than that of one year ago. Median storage on the first day of January in 42 years of record is 215 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 above average in 16 of 20 observation wells. Water levels in 11 of the wells were above November 2009 levels, and water levels in 18 of the wells were above December 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 Dec. 2008		January 2009 to December 2009					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Jan.	3.05	43.99	2.91	47.82	95	109	-.14	+3.83
Feb.	2.65	40.94	1.51	44.91	57	110	-1.14	+3.97
Mar.	3.38	38.29	2.53	43.40	75	113	-.85	+5.11
Apr.	3.78	34.91	2.36	40.87	62	117	-1.42	+5.96
May	4.13	31.13	6.14	38.51	149	124	+2.01	+7.38
June	4.09	27.00	7.08	32.37	173	120	+2.99	+5.37
July	4.10	22.91	*6.49	25.29	158	110	+2.39	+2.38
Aug.	3.89	18.81	6.12	18.80	157	100	+2.23	-.01
Sept.	4.05	14.92	2.22	12.68	55	85	-1.83	-2.24
Oct.	3.62	10.87	4.68	10.46	129	96	+1.06	-.41
Nov.	3.80	7.25	1.50	5.78	39	80	-2.30	-1.47
Dec.	3.45	3.45	4.28	4.28	124	124	+.83	+.83

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		
December (observed)	18,830 (1996)	5,111	1,665 (1998)	7,503	147
December (adjusted)	20,880 (1973)	6,772	1,624 (1998)	8,450	125
January (observed)	16,060 (2006)	5,672	1,318 (1981)		
January (adjusted)	21,330 (1996)	6,144	1,064 (1981)		