

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

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

Adjusted streamflow in the upper Delaware River Basin during January was in the normal range. The maximum daily mean discharge of 38,900 cfs was recorded on January 26. The minimum daily mean discharge was 4,230 cfs on January 23.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during January was 8,328 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 9,024 cfs, or 149 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during January was 2.71 inches, which is 89 percent of the 69-year average. The maximum daily-average precipitation during the month was 1.03 inches on January 26. Precipitation in the upper Delaware River Basin during the past 12 months was 4.54 inches more than the long-term average. Precipitation during January was 0.34 inches less than the long-term average for the month.

Combined storage February 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 94 percent of capacity above the point of maximum depletion. The combined storage of 256 billion gallons was 10 billion gallons more than that of one month ago and 26 billion gallons more than that of one year ago. Median storage on the first day of February in 42 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 January were above average in 18 of 20 observation wells. Water levels in 16 of the wells were above December 2009 levels, and water levels in 19 of the wells were above January 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 Jan. 2009		February 2009 to January 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Feb.	2.65	43.99	1.51	48.53	57	110	-1.14	+4.54
Mar.	3.38	41.34	2.53	47.02	75	114	-.85	+5.68
Apr.	3.78	37.96	2.36	44.49	62	117	-1.42	+6.53
May	4.13	34.18	6.14	42.13	149	123	+2.01	+7.95
June	4.09	30.05	7.08	35.99	173	120	+2.99	+5.94
July	4.10	25.96	6.49	28.91	158	111	+2.39	+2.95
Aug.	3.89	21.86	*7.03	22.42	181	103	+3.14	+5.56
Sept.	4.05	17.97	2.22	15.39	55	86	-1.83	-2.58
Oct.	3.62	13.92	4.68	13.17	129	95	+1.06	-.75
Nov.	3.80	10.30	1.50	8.49	39	82	-2.30	-1.81
Dec.	3.45	6.50	4.28	6.99	124	108	+.83	+.49
Jan.	3.05	3.05	2.71	2.71	89	89	-.34	-.34

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			2010 Monthly mean	Percent of median
	Maximum	Median	Minimum		
January (observed)	16,060 (2006)	5,672	1,318 (1981)	8,328	147
January (adjusted)	21,330 (1996)	6,144	1,064 (1981)	9,024	147
February (observed)	15,430 (2008)	5,456	1,748 (1980)		
February (adjusted)	20,330 (1981)	5,616	1,373 (1980)		