

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

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

Adjusted streamflow in the upper Delaware River Basin during February was deficient. The maximum daily mean discharge of 8,650 cfs was recorded on February 2. The minimum daily mean discharge was 3,040 cfs on February 22.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during February was 4,950 cfs, which is 91 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 4,357 cfs, or 60 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during February was 3.00 inches, which is 114 percent of the 69-year average. The maximum daily-average precipitation during the month was 1.20 inches on February 26. Precipitation in the upper Delaware River Basin during the past 12 months was 6.05 inches more than the long-term average. Precipitation during February was 0.36 inches more than the long-term average for the month.

Combined storage March 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 87 percent of capacity above the point of maximum depletion. The combined storage of 234 billion gallons was 21 billion gallons less than that of one month ago and 5 billion gallons more than that of one year ago. Median storage on the first day of March in 42 years of record is 227 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 February were above average in 15 of 20 observation wells. Water levels in 16 of the wells were below January 2010 levels, and water levels in 19 of the wells were above February 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 Feb. 2009		March 2009 to February 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Mar.	3.38	43.98	2.53	50.03	75	114	-.85	+6.05
Apr.	3.78	40.60	2.36	47.50	62	117	-1.42	+6.90
May	4.13	36.82	6.14	45.14	149	123	+2.01	+8.32
June	4.09	32.69	7.08	39.00	173	119	+2.99	+6.31
July	4.10	28.60	6.49	31.92	158	112	+2.39	+3.32
Aug.	3.89	24.50	7.03	25.43	181	104	+3.14	+.93
Sept.	4.05	20.61	*2.23	18.40	55	89	-1.82	-2.21
Oct.	3.62	16.56	4.68	16.17	129	98	+1.06	-.39
Nov.	3.80	12.94	1.50	11.49	39	89	-2.30	-1.45
Dec.	3.45	9.14	4.28	9.99	124	109	+.83	+.85
Jan.	3.05	5.69	2.71	5.71	89	100	-.34	+.02
Feb.	2.64	2.64	3.00	3.00	114	114	+.36	+.36

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		
February (observed)	15,430 (2008)	5,456	1,748 (1980)	4,950	91
February (adjusted)	20,330 (1981)	5,616	1,373 (1980)	4,357	78
March (observed)	24,480 (1945)	9,168	3,191 (1981)		
March (adjusted)	25,910 (1945)	11,000	3,928 (2006)		