

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

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

Adjusted streamflow in the upper Delaware River Basin during February was in the normal range. The maximum daily mean discharge of 13,300 cfs was recorded on February 13. The minimum daily mean discharge was 2,900 cfs on February 8.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during February was 5,189 cfs, which is 98 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 6,283 cfs, or 86 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during February was 1.30 inches, which is 49 percent of the 68-year average. The maximum daily-average precipitation during the month was 0.32 inches on February 28. Precipitation in the upper Delaware River Basin during the past 12 months was 2.16 inches more than the long-term average. Precipitation during February was 1.35 inches less than the long-term average for the month.

Combined storage March 1, 2009 in Pepacton, Cannonsville, and Neversink Reservoirs was 85 percent of capacity above the point of maximum depletion. The combined storage of 229 billion gallons was slightly less than that of one month ago and 40 billion gallons less than that of one year ago. Median storage on the first day of March in 41 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 below average in 16 of 20 observation wells. Water levels in 14 of the wells were below January 2009 levels, and water levels in 18 of the wells were below February 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 Feb. 2008		March 2008 to February 2009					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Mar.	3.33	43.92	6.52	46.08	196	105	+3.19	+2.16
Apr.	3.78	40.59	3.22	39.56	85	97	-.56	-1.03
May	4.15	36.81	2.80	36.34	67	99	-1.35	-.47
June	4.10	32.66	3.43	33.54	84	103	-.67	+.88
July	4.07	28.56	6.00	30.11	147	105	+1.93	+1.55
Aug.	3.91	24.49	2.49	24.11	64	98	-1.42	-.38
Sept.	4.04	20.58	5.04	21.62	125	105	+1.00	+1.04
Oct.	3.61	16.54	4.44	16.58	123	100	+.83	+.04
Nov.	3.82	12.93	2.06	12.14	54	94	-1.76	-.79
Dec.	3.41	9.11	6.26	10.08	184	111	+2.85	+.97
Jan.	3.05	5.70	2.52	3.82	83	67	-.53	-1.88
Feb.	2.65	2.65	1.30	1.30	49	49	-1.35	-1.35

Note: Amount shown in cumulative columns is total from month shown to present.

STREAMFLOW, IN CFS  
DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2007			2009 Monthly mean	Percent of median
	Maximum	Median	Minimum		
February (observed)	15,120 (1976)	5,295	1,748 (1980)	5,189	98
February (adjusted)	20,330 (1981)	5,613	1,373 (1980)	6,283	112
March (observed)	24,480 (1945)	9,152	3,191 (1981)		
March (adjusted)	25,910 (1945)	10,975	3,928 (2006)		