

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
February 2011**

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 8,000 cfs was recorded on February 27. The minimum daily mean discharge was 2,600 cfs on February 6.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during February was 4,272 cfs, which is 78 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 5,442 cfs, or 75 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during February was 3.80 inches, which is 143 percent of the 70-year average. The maximum daily-average precipitation during the month was 0.79 inches on February 2. Precipitation in the upper Delaware River Basin during the past 12 months was 3.70 inches more than the long-term average. Precipitation during February was 1.15 inches more than the long-term average for the month.

Combined storage March 1, 2011 in Pepacton, Cannonsville, and Neversink Reservoirs was 83 percent of capacity above the point of maximum depletion. The combined storage of 226 billion gallons was 1 billion gallons less than that of one month ago and 9 billion gallons less than that of one year ago. Median storage on the first day of March in 43 years of record is 228 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 17 of 21 observation wells. Water levels in 11 of the wells were below January 2011 levels, and water levels in all of the wells were below February 2010 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. 2010		March 2010 to February 2011					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Mar.	3.36	44.07	5.36	47.77	160	108	+2.00	+3.70
Apr.	3.75	40.71	2.86	42.41	76	104	-.89	+1.70
May	4.16	36.96	3.02	39.55	73	107	-1.14	+2.59
June	4.14	32.80	3.90	36.53	94	111	-.24	+3.73
July	4.13	28.66	4.49	32.63	109	114	+.36	+3.97
Aug.	3.94	24.53	5.40	28.14	137	115	+1.46	+3.61
Sept.	4.03	20.59	*2.44	22.74	61	110	-1.59	+2.15
Oct.	3.64	16.56	*8.50	20.30	234	123	+4.86	+3.74
Nov.	3.77	12.92	2.83	11.80	75	91	-.94	-1.12
Dec.	3.46	9.15	3.42	8.97	99	98	-.04	-.18
Jan.	3.04	5.69	1.75	5.55	58	98	-1.29	-.14
Feb.	2.65	2.65	3.80	3.80	143	143	+1.15	+1.15

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			2011 Monthly mean	Percent of median
	Maximum	Median	Minimum		
February (observed)	15,430 (2008)	5,444	1,748 (1980)	4,272	78
February (adjusted)	20,330 (1981)	5,823	1,373 (1980)	5,442	93
March (observed)	24,480 (1945)	9,242	3,191 (1981)		
March (adjusted)	25,910 (1945)	11,110	3,928 (2006)		