

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

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

Adjusted streamflow in the upper Delaware River Basin during March was excessive. The maximum daily mean discharge of 37,100 cfs was recorded on March 31. The minimum daily mean discharge was 4,980 cfs on March 7.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during March was 16,520 cfs, which is 180 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 19,560 cfs, or 176 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during March was 5.11 inches, which is 152 percent of the 69-year average. The maximum daily-average precipitation during the month was 1.68 inches on March 23. Precipitation in the upper Delaware River Basin during the past 12 months was 8.79 inches more than the long-term average. Precipitation during March was 1.75 inches more than the long-term average for the month.

Combined storage April 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 102 percent of capacity above the point of maximum depletion. The combined storage of 277 billion gallons was 43 billion gallons more than that of one month ago and 13 billion gallons more than that of one year ago. Median storage on the first day of April in 42 years of record is 261 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled a total of 20.6, 10.2, and 6.6 billion gallons, respectively, during the month.

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 March were above average in 14 of 20 observation wells. Water levels in 16 of the wells were above February 2010 levels, and water levels in 17 of the wells were above March 2009 levels. Water levels in one observation well in Pennsylvania and three observation wells in New Jersey reached new record highs for their respective periods of record, regardless of month.

## 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 Mar. 2009		April 2009 to March 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Apr.	3.78	43.96	2.36	52.75	62	120	-1.42	+8.79
May	4.13	40.18	6.14	50.39	149	125	+2.01	+10.21
June	4.09	36.05	7.08	44.25	173	123	+2.99	+8.20
July	4.10	31.96	6.49	37.17	158	116	+2.39	+5.21
Aug.	3.89	27.86	7.03	30.68	181	110	+3.14	+2.82
Sept.	4.05	23.97	2.23	23.65	55	99	-1.82	-.32
Oct.	3.62	19.92	*4.82	21.42	133	108	+1.20	+1.50
Nov.	3.80	16.30	1.50	16.60	39	102	-2.30	+3.30
Dec.	3.45	12.50	4.28	15.10	124	121	+83	+2.60
Jan.	3.05	9.05	2.71	10.82	89	120	-.34	+1.77
Feb.	2.64	6.00	3.00	8.11	114	135	+36	+2.11
Mar.	3.36	3.36	5.11	5.11	152	152	+175	+1.75

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		
March (observed)	24,480 (1945)	9,168	3,191 (1981)	16,520	180
March (adjusted)	25,910 (1945)	11,000	3,928 (2006)	19,560	178
April (observed)	31,560 (1940)	11,130	3,322 (1985)		
April (adjusted)	33,010 (1940)	13,780	3,847 (1946)		