

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

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

Adjusted streamflow in the upper Delaware River Basin during March was in the normal range. The maximum daily mean discharge of 31,600 cfs was recorded on March 10. The minimum daily mean discharge was 4,400 cfs on March 4.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during March was 9,615 cfs, which is 105 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 12,070 cfs, or 109 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during March was 2.32 inches, which is 69 percent of the 68-year average. The maximum daily-average precipitation during the month was 0.66 inches on March 9. Precipitation in the upper Delaware River Basin during the past 12 months was 2.20 inches less than the long-term average. Precipitation during March was 1.06 inches less than the long-term average for the month.

Combined storage April 1, 2009 in Pepacton, Cannonsville, and Neversink Reservoirs was 97 percent of capacity above the point of maximum depletion. The combined storage of 264 billion gallons was 34 billion gallons more than that of one month ago and 8 billion gallons less than that of one year ago. Median storage on the first day of April in 41 years of record is 260 billion gallons. Cannonsville Reservoir spilled 3.9 billion gallons 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 below average in 17 of 20 observation wells. Water levels in 11 of the wells were below February 2009 levels, and water levels in 19 of the wells were below March 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 Mar. 2008		April 2008 to March 2009					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Apr.	3.78	43.97	3.22	41.77	85	95	-.56	-2.20
May	4.15	40.19	2.80	38.55	67	96	-1.35	-1.64
June	4.10	36.04	3.43	35.75	84	99	-.67	-.29
July	4.07	31.94	6.00	32.32	147	101	+1.93	+3.38
Aug.	3.91	27.87	2.49	26.32	64	94	-1.42	-1.55
Sept.	4.04	23.96	5.04	23.83	125	99	+1.00	-.13
Oct.	3.61	19.92	*4.33	18.79	120	94	+.72	-1.13
Nov.	3.82	16.31	2.06	14.46	54	89	-1.76	-1.85
Dec.	3.41	12.49	6.26	12.40	184	99	+2.85	-.09
Jan.	3.05	9.08	2.52	6.14	83	68	-.53	-2.94
Feb.	2.65	6.03	1.30	3.62	49	60	-1.35	-2.41
Mar.	3.38	3.38	2.32	2.32	69	69	-1.06	-1.06

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	1940-2007			2009 Monthly mean	Percent of median
	Maximum	Median	Minimum		
March (observed)	24,480 (1945)	9,152	3,191 (1981)	9,615	105
March (adjusted)	25,910 (1945)	10,975	3,928 (2006)	12,070	110
April (observed)	31,560 (1940)	11,385	3,322 (1985)		
April (adjusted)	33,010 (1940)	13,810	3,847 (1946)		