

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
March 2007**

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 34,000 cfs was recorded on March 28. The minimum daily mean discharge was 3,600 cfs on March 8.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during March was 12,600 cfs, which is 138 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 15,690 cfs, or 141 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during March was 3.61 inches, which is 108 percent of the 66-year average. The maximum daily-average precipitation during the month was 1.32 inches on March 17. Precipitation in the upper Delaware River Basin during the past 12 months was 12.25 inches more than the long-term average. Precipitation during March was 0.28 inches more than the long-term average for the month.

Combined storage April 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 102 percent of capacity above the point of maximum depletion. The combined storage of 276 billion gallons was 41 billion gallons more than that of one month ago and 18 billion gallons more than that of one year ago. Median storage on the first day of April in 39 years of record is 258 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled 5.0, 18.9, and 0.1 billion gallons, respectively, during March.

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 12 of 20 observation wells. Water levels in 10 of 20 wells were above February 2007 levels, and water levels in 10 of 20 wells were above March 2006 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. 2006		April 2006 to March 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Apr.	3.76	43.64	3.80	55.89	101	128	+0.04	+12.25
May	4.18	39.88	4.43	52.09	106	131	+0.25	+12.21
June	4.00	35.70	11.62	47.66	290	134	+7.62	+11.96
July	4.06	31.70	3.12	36.04	77	114	-0.94	+4.34
Aug.	3.89	27.64	6.13	32.92	158	119	+2.24	+5.28
Sept.	4.04	23.75	5.04	26.79	125	113	+1.00	+3.04
Oct.	3.54	19.71	5.16	21.75	146	110	+1.62	+2.04
Nov.	3.80	16.17	*4.70	16.59	124	103	+0.90	+0.42
Dec.	3.40	12.37	1.92	11.89	56	96	-1.48	-0.48
Jan.	3.05	8.97	3.40	9.97	111	111	+0.35	+1.00
Feb.	2.59	5.92	2.96	6.57	114	111	+0.37	+0.65
Mar.	3.33	3.33	3.61	3.61	108	108	+0.28	+0.28

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	1940-2005			2007 Monthly mean	Percent of median
	Maximum	Median	Minimum		
March (observed)	24,480 (1945)	9,152	3,191 (1981)	12,600	138
March (adjusted)	25,910 (1945)	10,975	4,428 (1981)	15,690	143

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

Month	1940-2005			2007 Monthly mean	Percent of median
	Maximum	Median	Minimum		
April (observed)	31,560 (1940)	11,385	3,322 (1985)		
April (adjusted)	33,010 (1940)	13,810	3,847 (1946)		