

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
March 2008**

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

Adjusted streamflow in the upper Delaware River Basin during March was excessive for the third consecutive month. The maximum daily mean discharge of 66,700 cfs was recorded on March 9. The minimum daily mean discharge was 6,890 cfs on March 3.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during March was 23,000 cfs, which is 252 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 23,750 cfs, or 214 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during March was 6.12 inches, which is 184 percent of the 67-year average. The maximum daily-average precipitation during the month was 1.83 inches on March 5. Precipitation in the upper Delaware River Basin during the past 12 months was 8.84 inches more than the long-term average. Precipitation during March was 2.79 inches more than the long-term average for the month.

Combined storage on April 1, 2008 in Pepacton, Cannonsville, and Neversink Reservoirs was 100 percent of capacity above the point of maximum depletion. The combined storage of 272 billion gallons was 2.2 billion gallons more than that of one month ago and 4.1 billion gallons less than that of one year ago. Median combined storage on the first day of April in 40 years of record is 259 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled a total of 32.8, 32.8, and 8.8 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 17 of 20 observation wells. Water levels in 19 of the wells were above February 2008 levels, and water levels in 15 of the wells were above March 2007 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. 2007		April 2007 to March 2008					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Apr.	3.76	43.82	5.57	52.66	148	120	+1.81	+8.84
May	4.18	40.06	1.68	47.09	40	118	-2.50	+7.03
June	4.12	35.88	3.35	45.41	81	127	-.77	+9.53
July	4.04	31.76	5.76	42.06	143	132	+1.72	+10.30
Aug.	3.92	27.72	3.53	36.30	90	131	-.39	+8.58
Sept.	4.06	23.80	2.88	32.77	71	138	-1.18	+8.97
Oct.	3.56	19.74	*6.82	29.89	192	151	+3.26	+10.15
Nov.	3.81	16.18	4.15	23.07	109	143	+.34	+6.89
Dec.	3.38	12.37	4.88	18.92	144	153	+1.50	+6.55
Jan.	3.06	8.99	1.79	14.04	58	156	-1.27	+5.05
Feb.	2.60	5.93	6.13	12.25	236	207	+3.53	+6.32
Mar.	3.33	3.33	6.12	6.12	184	184	+2.79	+2.79

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	1940-2006			2008 Monthly mean	Percent of median
	Maximum	Median	Minimum		
March (observed)	24,480 (1945)	9,135	3,191 (1981)	23,000	252
March (adjusted)	25,910 (1945)	10,950	3,928 (1981)	23,750	217
April (observed)	31,560 (1940)	11,130	3,322 (1985)		
April (adjusted)	33,010 (1940)	13,780	3,847 (1946)		