

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

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

Adjusted streamflow in the upper Delaware River Basin during February was excessive. The maximum daily mean discharge of 34,100 cfs was recorded on February 7. The minimum daily mean discharge was 6,050 cfs on February 1.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during February was 15,480 cfs, which is 284 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 16,460 cfs, or 226 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during February was 6.13 inches, which is 236 percent of the 67-year average and a new February maximum for the period of record. The maximum daily-average precipitation during the month was 0.97 inches on February 2. Precipitation in the upper Delaware River Basin during the past 12 months was 6.57 inches more than the long-term average. Precipitation during February was 3.53 inches more than the long-term average for the month.

Combined storage on March 1, 2008 in Pepacton, Cannonsville, and Neversink Reservoirs was 99 percent of capacity above the point of maximum depletion and set a new March 1 maximum for the period of record. The combined storage of 269 billion gallons was 17 billion gallons more than that of one month ago and 35 billion gallons more than that of one year ago. Median combined storage on the first day of March in 40 years of record is 225 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled a total of 10.5, 8.4, and 2.5 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 February were above average in 11 of 20 observation wells. Water levels in 14 of the wells were above January 2008 levels, and water levels in 11 of the wells were above February 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 Feb. 2007		March 2007 to February 2008					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Mar.	3.33	43.82	3.66	50.39	110	115	+0.33	+6.57
Apr.	3.76	40.49	5.57	46.73	148	115	+1.81	+6.24
May	4.18	36.73	1.68	41.16	40	112	-2.50	+4.43
June	4.12	32.55	3.35	39.48	81	121	-0.77	+6.93
July	4.04	28.43	5.76	36.13	143	127	+1.72	+7.70
Aug.	3.92	24.39	3.53	30.37	90	125	-0.39	+5.98
Sept.	4.06	20.47	*2.88	26.84	71	131	-1.18	+6.37
Oct.	3.56	16.41	7.01	23.96	197	146	+3.45	+7.55
Nov.	3.81	12.85	4.15	16.95	109	132	+0.34	+4.10
Dec.	3.38	9.04	4.88	12.80	144	142	+1.50	+3.76
Jan.	3.06	5.66	1.79	7.92	58	140	-1.27	+2.26
Feb.	2.60	2.60	6.13	6.13	236	236	+3.53	+3.53

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		
February (observed)	15,120 (1976)	5,456	1,748 (1980)	15,480	284
February (adjusted)	20,330 (1981)	5,616	1,373 (1980)	16,460	293
March (observed)	24,480 (1945)	9,135	3,191 (1981)		
March (adjusted)	25,910 (1945)	10,950	3,928 (1981)		