

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

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

Adjusted streamflow in the upper Delaware River Basin during December was in the normal range. The maximum daily mean discharge of 19,800 cfs was recorded on December 25. The minimum daily mean discharge was 4,710 cfs on December 10.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during December was 8,435 cfs, which is 167 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 10,640 cfs, or 172 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during December was 4.88 inches, which is 144 percent of the 67-year average. The maximum daily-average precipitation during the month was 0.78 inches on December 14. Precipitation in the upper Delaware River Basin during the past 12 months was 5.64 inches more than the long-term average. Precipitation during December was 1.50 inches more than the long-term average for the month.

Combined storage January 1, 2008 in Pepacton, Cannonsville, and Neversink Reservoirs was 92 percent of capacity above the point of maximum depletion. The combined storage of 250 billion gallons was 32 billion gallons more than that of one month ago and 5 billion gallons less than that of one year ago. Median combined storage on the first day of January in 40 years of record is 201 billion gallons.

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 December were above average in 11 of 20 observation wells. Water levels in 18 of the wells were above November 2007 levels, and water levels in 15 of the wells were below December 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 Dec. 2006		January 2007 to December 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Jan.	3.05	43.80	3.92	49.44	129	113	+ .87	+5.64
Feb.	2.59	40.75	3.12	45.52	120	112	+ .53	+4.77
Mar.	3.33	38.16	3.66	42.40	110	111	+ .33	+4.24
Apr.	3.76	34.83	*5.57	38.74	148	111	+1.81	+3.91
May	4.18	31.07	*1.68	33.17	40	107	-2.50	+2.10
June	4.12	26.89	3.46	31.49	84	117	-.66	+4.60
July	4.04	22.77	5.76	28.03	143	123	+1.72	+5.26
Aug.	3.92	18.73	3.89	22.27	99	119	-.03	+3.54
Sept.	4.06	14.81	2.34	18.38	58	124	-1.72	+3.57
Oct.	3.56	10.75	7.01	16.04	197	149	+3.45	+5.29
Nov.	3.81	7.19	4.15	9.03	109	126	+ .34	+1.84
Dec.	3.38	3.38	4.88	4.88	144	144	+1.50	+1.50

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			2007 Monthly mean	Percent of median
	Maximum	Median	Minimum		
December (observed)	18,830 (1996)	5,050	1,665 (1998)	8,435	167
December (adjusted)	20,880 (1973)	6,772	1,624 (1998)	10,640	157
January (observed)	16,060 (2006)	5,271	1,318 (1981)		
January (adjusted)	21,330 (1996)	6,004	1,064 (1981)		