

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
December 2006**

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 11,100 cfs was recorded on December 3. The minimum daily mean discharge was 4,270 cfs on December 22.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during December was 6,254 cfs, which is 125 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 6,172 cfs, or 100 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during December was 1.92 inches, which is 56 percent of the 66-year average. The maximum daily-average precipitation during the month was 0.68 inches on December 2. Precipitation in the upper Delaware River Basin during the past 12 months was 8.81 inches more than the long-term average. Precipitation during December was 1.48 inches less than the long-term average for the month.

Combined storage January 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 94 percent of capacity above the point of maximum depletion. The combined storage of 254 billion gallons was 16 billion gallons less than that of one month ago and 7 billion gallons more than that of one year ago. Median storage on the first day of January in 39 years of record is 197 billion gallons. Pepacton and Cannonsville Reservoirs spilled 2.1 and 0.7 billion gallons, respectively, in December.

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 19 of 20 observation wells. Water levels in 11 of 20 wells were below November 2006 levels, and water levels in 10 of 19 wells were above December 2005 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. 2005		January 2006 to December 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Jan.	3.02	43.66	5.19	52.47	172	120	+2.17	+8.81
Feb.	2.61	40.64	1.56	47.28	60	116	-1.05	+6.64
Mar.	3.36	38.03	1.32	45.72	39	120	-2.04	+7.69
Apr.	3.76	34.67	3.80	44.40	101	128	+0.04	+9.73
May	4.18	30.91	*4.43	40.60	106	131	+0.25	+9.69
June	4.00	26.73	*11.62	36.17	290	135	+7.62	+9.44
July	4.06	22.73	3.16	24.55	78	108	-0.90	+1.82
Aug.	3.89	18.67	5.40	21.39	139	115	+1.51	+2.72
Sept.	4.04	14.78	4.90	15.99	121	108	+0.86	+1.21
Oct.	3.54	10.74	4.86	11.09	137	103	+1.32	+0.35
Nov.	3.80	7.20	4.31	6.23	113	87	+0.51	-0.97
Dec.	3.40	3.40	1.92	1.92	56	56	-1.48	-1.48

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			2006 Monthly mean	Percent of median
	Maximum	Median	Minimum		
December (observed)	18,830 (1996)	4,996	1,665 (1998)	6,254	125
December (adjusted)	20,880 (1973)	6,754	1,624 (1998)	6,172	91
January (observed)	15,600 (1996)	5,116	1,318 (1981)		
January (adjusted)	21,330 (1996)	5,939	1,064 (1981)		