

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

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

Adjusted streamflow in the upper Delaware River Basin during November was excessive for the sixth consecutive month. The maximum daily mean discharge of 29,200 cfs was recorded on November 17. The minimum daily mean discharge was 7,490 cfs on November 7.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during November was 12,580 cfs, which is 271 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 13,460 cfs, or 221 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during November was 4.31 inches, which is 113 percent of the 65-year average. The maximum daily-average precipitation during the month was 1.68 inches on November 17. Precipitation in the upper Delaware River Basin during the past 12 months was 9.13 inches more than the long-term average. Precipitation during November was 0.51 inches more than the long-term average for the month.

Combined storage December 1, 2006 in Pepacton, Cannonsville, and Neversink Reservoirs was 100 percent of capacity above the point of maximum depletion. The combined storage of 270 billion gallons was 2 billion gallons more than that of one month ago and 57 billion gallons more than that of one year ago. Median storage on the first day of December in 39 years of record is 177 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled 6.6, 21.0 and 2.2 billion gallons, respectively, in November.

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 November were above average in 19 of 20 observation wells. Water levels in 19 of 20 wells were above October 2006 levels, and water levels in 17 of 20 wells were above November 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 Nov. 2005		December 2005 to November 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Dec.	3.41	43.67	2.96	52.80	87	121	-0.45	+9.13
Jan.	3.02	40.26	5.19	49.84	172	124	+2.17	+9.58
Feb.	2.61	37.24	1.56	44.65	60	120	-1.05	+7.41
Mar.	3.36	34.63	1.32	43.09	39	124	-2.04	+8.46
Apr.	3.76	31.27	3.80	41.77	101	134	+0.04	+10.50
May	4.18	27.51	4.45	37.97	106	138	+0.27	+10.46
June	4.00	23.33	10.89	33.52	272	144	+6.89	+10.19
July	4.06	19.33	3.16	22.63	78	117	-0.90	+3.30
Aug.	3.89	15.27	5.40	19.47	139	128	+1.51	+4.20
Sept.	4.04	11.38	4.90	14.07	121	124	+0.86	+2.69
Oct.	3.54	7.34	4.86	9.17	137	125	+1.32	+1.83
Nov.	3.80	3.80	4.31	4.31	113	113	+0.51	+0.51

Note: Amount shown in cumulative columns is total from month shown to present.

STREAMFLOW, IN CFS

DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2005			2006 Monthly mean	Percent of median
	Maximum	Median	Minimum		
November (observed)	13,010 (2003)	4,642	995 (1964)	12,580	271
November (adjusted)	16,160 (1972)	6,100	390 (1964)	13,460	221
December (observed)	18,830 (1996)	4,996	1,665 (1998)		
December (adjusted)	20,880 (1973)	6,754	1,624 (1998)		