

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
November 2004**

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

Adjusted streamflow in the upper Delaware River Basin during November was in the normal range. The maximum daily mean discharge of 33,200 cfs occurred on November 29. The minimum daily mean discharge was 2,790 cfs on November 15.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during November was 5,449 cfs, which is 122 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 6,711 cfs, or 106 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during November was 3.64 inches, which is 96 percent of the 63-year average. The maximum daily-average precipitation during the month was 1.01 inches on November 29. Precipitation in the upper Delaware River Basin during the past 12 months was 9.02 inches more than the long-term average. Precipitation during November was 0.16 inches less than the long-term average for the month.

Combined storage December 1, 2004 in Pepacton, Cannonsville, and Neversink Reservoirs was 99 percent of capacity above the point of maximum depletion. The combined storage of 268 billion gallons was 0.1 billion gallons less than that of one month ago and 7 billion gallons less than that of one year ago. Median storage on the first day of December in 37 years of record is 177 billion gallons. Cannonsville Reservoir spilled 9.7 billion gallons in November.

As part of a statewide network, the USGS operates 12 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during November were above average in all of the wells. Water levels in 10 of the wells were below October 2004 levels, and water levels in 11 of the wells were below November 2003 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. 2003		December 2003 to November 2004					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Dec.	3.37	43.39	4.90	52.41	145	121	+1.53	+9.02
Jan.	2.98	40.02	2.60	47.51	87	119	-.38	+7.49
Feb.	2.64	37.04	1.41	44.91	53	121	-1.23	+7.87
Mar.	3.35	34.40	2.22	43.50	66	126	-1.13	+9.10
Apr.	3.72	31.05	3.84	41.28	103	133	+.12	+10.23
May	4.21	27.33	4.81	37.44	114	137	+.60	+10.11
June	4.03	23.12	3.02	32.63	75	141	-1.01	+9.51
July	4.03	19.09	*6.82	29.61	169	155	+2.79	+10.52
Aug.	3.84	15.06	7.49	22.79	195	151	+3.65	+7.73
Sept.	3.99	11.22	9.64	15.30	242	136	+5.65	+4.08
Oct.	3.43	7.23	2.02	5.66	59	78	-1.41	-1.57
Nov.	3.80	3.80	3.64	3.64	96	96	-.16	-.16

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	1940-2003			2004 Monthly mean	Percent of median
	Maximum	Median	Minimum		
November (observed)	11,760 (1951)	4,476	995 (1964)	5,449	122
November (adjusted)	16,160 (1972)	5,806	390 (1964)	6,711	116
December (observed)	18,830 (1996)	4,916	1,665 (1998)		
December (adjusted)	20,880 (1973)	6,506	1,624 (1998)		