

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

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

Adjusted streamflow in the upper Delaware River Basin during May was in the normal range. The maximum daily mean discharge of 10,800 cfs occurred on May 4. The minimum daily mean discharge was 3,650 cfs on May 23.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during May was 6,835 cfs, which is 97 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 7,895 cfs, or 96 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during May was 4.58 inches, which is 109 percent of the 63-year average. The maximum daily-average precipitation during the month was 0.85 inches on May 27. Precipitation in the upper Delaware River Basin during the past 12 months was 12.61 inches more than the long-term average. Precipitation during May was 0.37 inches more than the long-term average for the month.

Combined storage June 1, 2004 in Pepacton, Cannonsville, and Neversink Reservoirs was 100 percent of capacity above the point of maximum depletion. The combined storage of 272 billion gallons was 0.3 billion gallons less than that of one month ago and 0.9 billion gallons less than that of one year ago. Median storage on the first day of June in 37 years of record is 269 billion gallons. Pepacton and Cannonsville Reservoirs spilled 3.6 and 13.3 billion gallons, respectively, in May.

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 May were above average in 8 of the wells. Water levels in 9 of the wells were below April 2004 levels, and water levels in 10 of the wells were above May 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 May 2003		June 2003 to May 2004					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
June	3.99	43.16	6.57	55.77	165	129	+2.58	+12.61
July	4.02	39.17	4.37	49.20	109	126	+.35	+10.03
Aug.	3.82	35.15	4.81	44.83	126	128	+.99	+9.68
Sept.	3.88	31.33	10.69	40.02	276	128	+6.81	+8.69
Oct.	3.39	27.45	5.94	29.33	175	107	+2.55	+1.88
Nov.	3.79	24.06	4.38	23.39	116	97	+.59	-.67
Dec.	3.37	20.27	*4.90	19.01	145	94	+1.53	-1.26
Jan.	2.98	16.90	2.36	14.11	79	83	-.62	-2.79
Feb.	2.64	13.92	1.38	11.75	52	84	-1.26	-2.17
Mar.	3.35	11.28	2.10	10.37	63	92	-1.25	-.91
Apr.	3.72	7.93	3.69	8.27	99	104	-.03	+.34
May	4.21	4.21	4.58	4.58	109	109	+.37	+.37

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	1940-2002			2004 Monthly mean	Percent of median
	Maximum	Median	Minimum		
May (observed)	16,090 (1943)	7,019	2,215 (1965)	6,835	97
May (adjusted)	18,970 (1989)	8,256	2,944 (1941)	7,895	96
June (observed)	15,200 (1972)	3,368	1,214 (1965)		
June (adjusted)	16,010 (1972)	3,973	1,024 (1962)		