

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
April 2001**

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

Adjusted streamflow in the upper Delaware River Basin during April was excessive. The maximum daily discharge of 35,800 cfs occurred on April 11. The minimum daily discharge was 3,470 cfs on April 30.

On the basis of a 5-station average, precipitation during April was 1.38 inches, which was 37 percent of the 60-year average. The maximum daily-average precipitation during April was 0.45 inches on April 10. Precipitation in the upper Delaware River Basin during the past 12 months was 0.18 inches greater than the long-term average. Precipitation during April was 2.39 inches less than the long-term average for the month.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during April was 14,750 cfs, which was 129 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 17,110 cfs, or 122 percent of median (water years 1961-90).

Combined storage May 1, 2001, in Pepacton, Cannonsville, and Neversink Reservoirs was 100.0 percent of capacity above the point of maximum depletion. The combined storage of 271 billion gallons was 29 billion gallons more than that of one month ago and was 1 billion gallons less than that of one year ago. Median storage on the first day of May in 33 years of record is 271 billion gallons.

As part of a statewide network, the USGS operates 13 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during April were below average in 7 of the wells. Water levels in 12 of the wells were trending upward in comparison to March levels. Water levels in 8 of the wells were below April 2000 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 Apr. 2000		May 2000 to April 2001					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
May	4.17	43.21	6.36	43.39	153	100	+2.19	+0.18
June	3.91	39.04	6.50	37.03	166	95	+2.59	-2.01
July	4.09	35.13	4.54	30.53	111	87	+45	-4.60
Aug.	3.86	31.04	*3.19	25.99	83	84	-.67	-5.05
Sept.	3.83	27.18	*3.74	22.80	98	84	-.09	-4.38
Oct.	3.39	23.35	2.41	19.06	71	82	-.98	-4.29
Nov.	3.85	19.96	2.50	16.65	65	83	-1.35	-3.31
Dec.	3.34	16.11	4.21	14.15	126	88	+.87	-1.96
Jan.	3.02	12.77	1.35	9.94	45	78	-1.67	-2.83
Feb.	2.65	9.75	2.26	8.59	85	88	-.39	-1.16
Mar.	3.33	7.10	4.95	6.33	149	89	+1.62	-.77
Apr.	3.77	3.77	1.38	1.38	37	37	-2.39	-2.39

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	1940-99			2001 Monthly mean	Percent of median
	Maximum	Median	Minimum		
April (observed)	31,560 (1940)	11,400	3,322 (1985)	14,750	129
April (adjusted)	33,010 (1940)	13,870	3,847 (1946)	17,110	123
May (observed)	16,090 (1943)	6,998	2,215 (1965)		
May (adjusted)	18,970 (1989)	8,234	2,944 (1941)		