

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

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

Adjusted streamflow in the upper Delaware River Basin during March was deficient. The maximum daily discharge of 25,600 cfs occurred on March 31. The minimum daily discharge was 2,710 cfs on March 12.

On the basis of a 5-station average, precipitation during March was 4.95 inches, which was 149 percent of the 60-year average. The maximum daily-average precipitation during March was 1.24 inches on March 30. Precipitation in the upper Delaware River Basin during the past 12 months was 3.82 inches greater than the long-term average. Precipitation during March was 1.62 inches more than the long-term average for the month.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during March was 6,954 cfs, which was 76 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 8,622 cfs, or 74 percent of median (water years 1961-90).

Combined storage April 1, 2001, in Pepacton, Cannonsville, and Neversink Reservoirs was 89.4 percent of capacity above the point of maximum depletion. The combined storage of 242 billion gallons was 8 billion gallons more than that of one month ago and was 14 billion gallons less than that of one year ago. Median storage on the first day of April in 33 years of record is 256 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 March were below average in 8 of the wells. Water levels in all of the wells were trending upward in comparison to February levels. Water levels in 10 of the wells were below March 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 Mar. 2000		April 2000 to March 2001					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Apr.	3.76	43.20	4.81	47.02	128	109	+1.05	+3.82
May	4.17	39.44	6.36	42.21	153	107	+2.19	+2.77
June	3.91	35.27	6.50	35.85	166	102	+2.59	+0.58
July	4.09	31.36	*4.54	29.35	111	94	+0.45	-2.01
Aug.	3.86	27.27	3.60	24.81	93	91	-0.26	-2.46
Sept.	3.83	23.41	3.53	21.21	92	91	-0.30	-2.20
Oct.	3.39	19.58	2.41	17.68	71	90	-0.98	-1.90
Nov.	3.85	16.19	2.50	15.27	65	94	-1.35	-0.92
Dec.	3.34	12.34	4.21	12.77	126	103	+0.87	+0.43
Jan.	3.02	9.00	1.35	8.56	45	95	-1.67	-0.44
Feb.	2.65	5.98	2.26	7.21	85	121	-0.39	+1.23
Mar.	3.33	3.33	4.95	4.95	149	149	+1.62	+1.62

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		
March (observed)	24,480 (1945)	9,152	3,191 (1981)	6,954	76
March (adjusted)	25,910 (1945)	11,110	4,428 (1981)	8,622	78
April (observed)	31,560 (1940)	11,400	3,322 (1985)		
April (adjusted)	33,010 (1940)	13,870	3,847 (1946)		