

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

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

Adjusted streamflow in the upper Delaware River Basin during February was deficient. The maximum daily mean discharge of 3,500 cfs occurred on February 3. The minimum daily mean discharge was 1,870 cfs on February 29.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during February was 2,779 cfs, which is 51 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 2,920 cfs, or 40 percent of median (water years 1971-2000).

On the basis of an 5-station average, precipitation during February was 1.38 inches, which is 52 percent of the 63-year average. The maximum daily-average precipitation during the month was 0.51 inches on February 4. Precipitation in the upper Delaware River Basin during the past 12 months was 10.46 inches more than the long-term average. Precipitation during February was 1.26 inches less than the long-term average for the month.

Combined storage March 1, 2004 in Pepacton, Cannonsville, and Neversink Reservoirs was 90 percent of capacity above the point of maximum depletion. The combined storage of 244 billion gallons was 17 billion gallons less than that of one month ago and 6 billion gallons more than that of one year ago. Median storage on the first day of March in 36 years of record is 221 billion gallons. Neversink Reservoir spilled 2.1 billion gallons in February.

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 February were above average in 8 of the wells. Water levels in all of the wells were below January 2004 levels, and water levels in 9 of the wells were above February 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 Feb. 2003		March 2003 to February 2004					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Mar.	3.36	43.20	3.03	53.66	90	124	-.33	+10.46
Apr.	3.74	39.84	2.80	50.63	75	127	-.94	+10.79
May	4.22	36.10	3.71	47.83	88	132	-.51	+11.73
June	3.99	31.88	6.57	44.12	165	138	+2.58	+12.24
July	4.02	27.89	4.37	37.55	109	135	+.35	+9.66
Aug.	3.82	23.87	*4.81	33.18	126	139	+.99	+9.31
Sept.	3.88	20.05	10.39	28.37	268	141	+6.51	+8.32
Oct.	3.39	16.17	5.63	17.98	166	111	+2.24	+1.81
Nov.	3.79	12.78	3.98	12.35	105	97	+.19	-.43
Dec.	3.37	8.99	4.63	8.37	137	93	+1.26	-.62
Jan.	2.98	5.62	2.36	3.74	79	67	-.62	-1.88
Feb.	2.64	2.64	1.38	1.38	52	52	-1.26	-1.26

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		
February (observed)	15,120 (1976)	5,456	1,748 (1980)	2,779	51
February (adjusted)	20,330 (1981)	5,616	1,373 (1980)	2,920	52
March (observed)	24,480 (1945)	9,135	3,191 (1981)		
March (adjusted)	25,910 (1945)	11,000	4,428 (1981)		