

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

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

Adjusted streamflow in the upper Delaware River Basin during January was in the normal range. The maximum daily mean discharge of 19,000 cfs occurred on January 6. The minimum daily mean discharge was 3,800 cfs on January 30 and 31.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during January was 8,202 cfs, which is 168 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 8,030 cfs, or 132 percent of median (water years 1971-2000).

On the basis of an 5-station average, precipitation during January was 2.36 inches, which is 79 percent of the 63-year average. The maximum daily-average precipitation during the month was 0.85 inches on January 5. Precipitation in the upper Delaware River Basin during the past 12 months was 12.05 inches more than the long-term average. Precipitation during January was 0.62 inches less than the long-term average for the month.

Combined storage February 1, 2004 in Pepacton, Cannonsville, and Neversink Reservoirs was 96 percent of capacity above the point of maximum depletion. The combined storage of 261 billion gallons was 14 billion gallons less than that of one month ago and 19 billion gallons more than that of one year ago. Median storage on the first day of February in 36 years of record is 214 billion gallons. Pepacton, Cannonsville and Neversink Reservoirs spilled 1, 13 and 5 billion gallons, respectively, in January.

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 January were above average in 10 of the wells. Water levels in 10 of the wells were below December 2003 levels, and water levels in 10 of the wells were above January 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 Jan. 2003		February 2003 to January 2004					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Feb	2.63	43.19	2.97	55.24	113	128	+.34	+12.05
Mar.	3.36	40.56	3.03	52.27	90	129	-.33	+11.71
Apr.	3.74	37.20	2.80	49.24	75	132	-.94	+12.04
May	4.22	33.46	3.71	46.44	88	139	-.51	+12.98
June	3.99	29.24	6.57	42.73	165	146	+2.58	+13.49
July	4.02	25.25	*4.37	36.16	109	143	+.35	+10.91
Aug.	3.82	21.23	4.80	31.79	126	150	+.98	+10.56
Sept.	3.88	17.41	10.39	26.99	268	155	+6.51	+9.58
Oct.	3.39	13.53	5.63	16.60	166	123	+2.24	+3.07
Nov.	3.79	10.14	3.98	10.97	105	108	+.19	+.83
Dec.	3.37	6.35	4.63	6.99	137	110	+1.26	+.64
Jan.	2.98	2.98	2.36	2.36	79	79	-.62	-.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	1940-2002			2004 Monthly mean	Percent of median
	Maximum	Median	Minimum		
January (observed)	15,600 (1996)	4,885	1,318 (1981)	8,202	168
January (adjusted)	21,330 (1996)	5,767	1,064 (1981)	8,030	139
February (observed)	15,120 (1976)	5,456	1,748 (1980)		
February (adjusted)	20,330 (1981)	5,616	1,373 (1980)		