

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
February 2005**

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

Adjusted streamflow in the upper Delaware River Basin during February was in the normal range. The maximum daily mean discharge of 11,500 cfs occurred on February 17. The minimum daily mean discharge was 4,390 cfs on February 6.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during February was 6,399 cfs, which is 121 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 7,052 cfs, or 97 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during February was 1.86 inches, which is 71 percent of the 64-year average. The maximum daily-average precipitation during the month was 0.61 inches on February 15. Precipitation in the upper Delaware River Basin during the past 12 months was 11.34 inches more than the long-term average. Precipitation during February was 0.76 inches less than the long-term average for the month.

Combined storage March 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 99 percent of capacity above the point of maximum depletion. The combined storage of 267 billion gallons was 3 billion gallons less than that of one month ago and 24 billion gallons more than that of one year ago. Median storage on the first day of March in 37 years of record is 221 billion gallons. Cannonsville and Neversink Reservoirs spilled 7.4 and 3.9 billion gallons, respectively, 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 10 of the wells. Water levels in 9 of the wells were below January 2005 levels, and water levels in all of the wells were above February 2004 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. 2004		March 2004 to February 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Mar.	3.35	43.39	2.22	54.73	66	126	-1.13	+11.34
Apr.	3.72	40.04	3.84	52.51	103	131	+1.12	+12.47
May	4.21	36.32	4.81	48.67	114	134	+0.60	+12.35
June	4.03	32.11	3.02	43.86	75	137	-1.01	+11.75
July	4.03	28.08	6.82	40.84	169	145	+2.79	+12.76
Aug.	3.84	24.05	7.29	34.02	190	141	+3.45	+9.97
Sept.	3.99	20.21	9.50	26.73	238	132	+5.51	+6.52
Oct.	3.43	16.22	2.02	17.23	59	106	-1.41	+1.01
Nov.	3.80	12.79	3.64	15.21	96	119	-0.16	+2.42
Dec.	3.40	8.99	4.04	11.57	119	129	+0.64	+2.58
Jan.	2.97	5.59	5.67	7.53	191	135	+2.70	+1.94
Feb.	2.62	2.62	1.86	1.86	71	71	-0.76	-0.76

Note: Amount shown in cumulative columns is total from month shown to present.

STREAMFLOW, IN CFS  
DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2003			2004 Monthly mean	Percent of median
	Maximum	Median	Minimum		
February (observed)	15,120 (1976)	5,295	1,748 (1980)	6,399	121
February (adjusted)	20,330 (1981)	5,613	1,373 (1980)	7,052	126
March (observed)	24,480 (1945)	9,152	3,191 (1981)		
March (adjusted)	25,910 (1945)	11,110	4,428 (1981)		