

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

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

Adjusted streamflow in the upper Delaware River Basin during January was excessive. The maximum daily mean discharge of 55,300 cfs occurred on January 15. The minimum daily mean discharge was 6,550 cfs on January 31.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during January was 13,420 cfs, which is 273 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 13,850 cfs, or 228 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during January was 5.67 inches, which is 191 percent of the 64-year average. The maximum daily-average precipitation during the month was 1.03 inches on January 14. Precipitation in the upper Delaware River Basin during the past 7 months was 13.52 inches more than the long-term average. Precipitation during January was 2.70 inches more than the long-term average for the month.

Combined storage February 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 100 percent of capacity above the point of maximum depletion. The combined storage of 270 billion gallons was 0.8 billion gallons less than that of one month ago and 10 billion gallons more than that of one year ago. Median storage on the first day of February in 37 years of record is 214 billion gallons. Pepacton, Cannonsville and Neversink Reservoirs spilled 17, 35 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 all of the wells. Water levels in 8 of the wells were below December 2004 levels, and water levels in 9 of the wells were above January 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 Jan. 2004		February 2004 to January 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Feb.	2.64	43.41	1.41	54.28	53	125	-1.23	+10.87
Mar.	3.35	40.77	2.22	52.87	66	130	-1.13	+12.10
Apr.	3.72	37.42	3.84	50.65	103	135	+1.12	+13.23
May	4.21	33.70	4.81	46.81	114	139	+0.60	+13.11
June	4.03	29.49	3.02	42.00	75	142	-1.01	+12.51
July	4.03	25.46	6.82	38.98	169	153	+2.79	+13.52
Aug.	3.84	21.43	*7.29	32.16	190	150	+3.45	+10.73
Sept.	3.99	17.59	*9.50	24.87	238	141	+5.51	+7.28
Oct.	3.43	13.60	2.02	15.37	59	113	-1.41	+1.77
Nov.	3.80	10.17	3.64	13.35	96	131	-.16	+3.18
Dec.	3.40	6.37	4.04	9.71	119	152	+0.64	+3.34
Jan.	2.97	2.97	5.67	5.67	191	191	+2.70	+2.70

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	1940-2003			2005 Monthly mean	Percent of median
	Maximum	Median	Minimum		
January (observed)	15,600 (1996)	4,922	1,318 (1981)	13,420	273
January (adjusted)	21,330 (1996)	5,821	1,064 (1981)	13,850	238
February (observed)	15,120 (1976)	5,295	1,748 (1980)		
February (adjusted)	20,330 (1981)	5,613	1,373 (1980)		