

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

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

Adjusted streamflow in the upper Delaware River Basin during May was deficient. The maximum daily mean discharge of 8,280 cfs occurred on May 1. The minimum daily mean discharge was 2,130 cfs on May 28.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during May was 3,898 cfs, which is 56 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 4,220 cfs, or 51 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during May was 1.31 inches, which is 31 percent of the 64-year average. The maximum daily-average precipitation during the month was 0.37 inches on May 15. Precipitation in the upper Delaware River Basin during the past 12 months was 11.70 inches more than the long-term average. Precipitation during May was 2.91 inches less than the long-term average for the month.

Combined storage June 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 96 percent of capacity above the point of maximum depletion. The combined storage of 260 billion gallons was 14 billion gallons less than that of one month ago and 12 billion gallons less than that of one year ago. Median storage on the first day of June in 38 years of record is 270 billion gallons. Pepacton, Cannonsville and Neversink Reservoirs spilled 0.9, 6.4 and 0.1 billion gallons, respectively, in May.

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 May were above average in 7 of the wells. Water levels in all of the wells were below April 2005 levels, and water levels in 7 of the wells were below May 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 May 2004		June 2004 to May 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
June	4.03	43.39	3.02	55.09	75	127	-1.01	+11.70
July	4.03	39.36	6.82	52.07	169	132	+2.79	+12.71
Aug.	3.84	35.33	7.29	45.25	190	128	+3.45	+9.92
Sept.	3.99	31.49	9.50	37.96	238	121	+5.51	+6.47
Oct.	3.43	27.50	2.45	28.46	71	103	-.98	+.96
Nov.	3.80	24.07	3.56	26.01	94	108	-.24	+1.94
Dec.	3.40	20.27	*4.12	22.45	121	111	+.72	+2.18
Jan.	2.97	16.87	5.67	18.33	191	109	+2.70	+1.46
Feb.	2.62	13.90	1.86	12.66	71	91	-.76	-1.24
Mar.	3.34	11.28	4.23	10.80	127	96	+.89	-.48
Apr.	3.72	7.94	5.26	6.57	141	83	+1.54	-1.37
May	4.22	4.22	1.31	1.31	31	31	-2.91	-2.91

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		
May (observed)	16,090 (1943)	6,998	2,215 (1965)	3,898	56
May (adjusted)	18,970 (1989)	8,234	2,944 (1941)	4,220	51
June (observed)	15,200 (1972)	3,445	1,214 (1965)		
June (adjusted)	16,010 (1972)	3,978	1,024 (1962)		