

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

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

Adjusted streamflow in the upper Delaware River Basin during April was excessive. The maximum daily mean discharge of 176,000 cfs occurred on April 3. The minimum daily mean discharge was 4,100 cfs on April 23.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during April was 24,000 cfs, which is 211 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 24,280 cfs, or 190 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during April was 5.26 inches, which is 141 percent of the 64-year average. The maximum daily-average precipitation during the month was 2.40 inches on April 3. Precipitation in the upper Delaware River Basin during the past 12 months was 15.13 inches more than the long-term average. Precipitation during April was 1.54 inches more than the long-term average for the month.

Combined storage May 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 101 percent of capacity above the point of maximum depletion. The combined storage of 274 billion gallons was 4 billion gallons less than that of one month ago and 1.5 billion gallons more than that of one year ago. Median storage on the first day of May in 37 years of record is 271 billion gallons. Pepacton, Cannonsville and Neversink Reservoirs spilled 32, 55 and 14 billion gallons, respectively, in April.

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 April were above average in 10 of the wells. Water levels in 10 of the wells were above March 2005 levels, and water levels in 11 of the wells were above April 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 Apr. 2004		May 2004 to April 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
May	4.21	43.38	4.81	58.51	114	135	+0.60	+15.13
June	4.03	39.17	3.02	53.70	75	137	-1.01	+14.53
July	4.03	35.14	6.82	50.68	169	144	+2.79	+15.54
Aug.	3.84	31.11	7.29	43.86	190	141	+3.45	+12.75
Sept.	3.99	27.27	9.50	36.57	238	134	+5.51	+9.30
Oct.	3.43	23.28	2.45	27.07	71	116	-0.98	+3.79
Nov.	3.80	19.85	3.56	24.62	94	124	-0.24	+4.77
Dec.	3.40	16.05	4.04	21.06	119	131	+0.64	+5.01
Jan.	2.97	12.65	5.67	17.02	191	135	+2.70	+4.37
Feb.	2.62	9.68	1.86	11.35	71	117	-0.76	+1.67
Mar.	3.34	7.06	4.23	9.49	127	134	+0.89	+2.43
Apr.	3.72	3.72	5.26	5.26	141	141	+1.54	+1.54

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			2005 Monthly mean	Percent of median
	Maximum	Median	Minimum		
April (observed)	31,560 (1940)	11,385	3,322 (1985)	24,000	211
April (adjusted)	33,010 (1940)	13,810	3,847 (1946)	24,280	176
May (observed)	16,090 (1943)	6,998	2,215 (1965)		
May (adjusted)	18,970 (1989)	8,234	2,944 (1941)		