

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

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

Adjusted streamflow in the upper Delaware River Basin during March was in the normal range. The maximum daily mean discharge of 57,000 cfs occurred on March 29. The minimum daily mean discharge was 3,520 cfs on March 20.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during March was 9,311 cfs, which is 102 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 10,940 cfs, or 99 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during March was 4.23 inches, which is 127 percent of the 64-year average. The maximum daily-average precipitation during the month was 1.66 inches on March 29. Precipitation in the upper Delaware River Basin during the past 12 months was 13.71 inches more than the long-term average. Precipitation during March was 0.89 inches more than the long-term average for the month.

Combined storage April 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 103 percent of capacity above the point of maximum depletion. The combined storage of 278 billion gallons was 11 billion gallons more than that of one month ago and 10 billion gallons more than that of one year ago. Combined storage on April 1, 2005 was the highest of record for the first day of April. Median storage on the first day of April in 37 years of record is 256 billion gallons. Pepacton, Cannonsville and Neversink Reservoirs spilled 1.0, 14.0 and 6.0 billion gallons, respectively, in March.

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 March were above average in 9 of the wells. Water levels in 6 of the wells were above February 2005 levels, and water levels in all of the wells were above March 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 Mar. 2004		April 2004 to March 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Apr.	3.72	43.38	3.84	57.09	103	132	+1.12	+13.71
May	4.21	39.66	4.81	53.25	114	134	+0.60	+13.59
June	4.03	35.45	3.02	48.44	75	137	-1.01	+12.99
July	4.03	31.42	6.82	45.42	169	145	+2.79	+14.00
Aug.	3.84	27.39	7.29	38.60	190	141	+3.45	+11.21
Sept.	3.99	23.55	9.50	31.31	238	133	+5.51	+7.76
Oct.	3.43	19.56	*2.45	21.81	71	112	-.98	+2.25
Nov.	3.80	16.13	*3.56	19.36	94	120	-.24	+3.23
Dec.	3.40	12.33	4.04	15.80	119	128	+0.64	+3.47
Jan.	2.97	8.93	5.67	11.76	191	132	+2.70	+2.83
Feb.	2.62	5.96	1.86	6.09	71	102	-.76	+1.13
Mar.	3.34	3.34	4.23	4.23	127	127	+0.89	+0.89

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		
March (observed)	24,480 (1945)	9,152	3,191 (1981)	9,311	102
March (adjusted)	25,910 (1945)	11,110	4,428 (1981)	10,940	98
April (observed)	31,560 (1940)	11,385	3,322 (1985)		
April (adjusted)	33,010 (1940)	13,810	3,847 (1946)		