

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
April 2007**

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 56,800 cfs was recorded on April 16. The minimum daily mean discharge was 7,590 cfs on April 12.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during April was 17,860 cfs, which is 157 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 18,500 cfs, or 145 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during April was 5.37 inches, which is 143 percent of the 66-year average. The maximum daily-average precipitation during the month was 2.56 inches on April 16. Precipitation in the upper Delaware River Basin during the past 12 months was 13.82 inches more than the long-term average. Precipitation during April was 1.61 inches more than the long-term average for the month.

Combined storage May 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 100 percent of capacity above the point of maximum depletion. The combined storage of 271 billion gallons was 4 billion gallons less than that of one month ago and 0.4 billion gallons less than that of one year ago. Median storage on the first day of May in 39 years of record is 271 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled 25.7, 31.2, and 10.5 billion gallons, respectively, during April.

As part of statewide networks, the USGS operates ground-water observation wells in the Pennsylvania and New Jersey parts of the Delaware River Basin. Mean water levels during April were above average in 18 of 20 observation wells. Water levels in all of the wells were above March 2007 levels, and water levels in all of the wells were above April 2006 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. 2006		May 2006 to April 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
May	4.18	43.64	4.43	57.46	106	132	+0.25	+13.82
June	4.00	39.46	11.62	53.03	290	134	+7.62	+13.57
July	4.06	35.46	3.12	41.41	77	117	-0.94	+5.95
Aug.	3.89	31.40	6.13	38.29	158	122	+2.24	+6.89
Sept.	4.04	27.51	5.04	32.16	125	117	+1.00	+4.65
Oct.	3.54	23.47	5.16	27.12	146	116	+1.62	+3.65
Nov.	3.80	19.93	4.70	21.96	124	110	+0.90	+2.03
Dec.	3.40	16.13	1.92	17.26	56	107	-1.48	+1.13
Jan.	3.05	12.73	3.40	15.34	111	121	+0.35	+2.61
Feb.	2.59	9.68	2.96	11.94	114	123	+0.37	+2.26
Mar.	3.33	7.09	3.61	8.98	108	127	+0.28	+1.89
Apr.	3.76	3.76	5.37	5.37	143	143	+1.61	+1.61

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

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

Month	1940-2005			2007 Monthly mean	Percent of median
	Maximum	Median	Minimum		
April (observed)	31,560 (1940)	11,385	3,322 (1985)	17,860	157
April (adjusted)	33,010 (1940)	13,810	3,847 (1946)	18,500	134
May (observed)	16,090 (1943)	6,910	2,215 (1965)		
May (adjusted)	18,970 (1989)	8,124	2,944 (1941)		