

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

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 8,620 cfs was recorded on May 1. The minimum daily mean discharge was 1,840 cfs on May 31.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during May was 3,595 cfs, which is 52 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 4,183 cfs, or 51 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during May was 1.40 inches, which is 33 percent of the 66-year average, and the second lowest total for May since record keeping began. The maximum daily-average precipitation during the month was 0.52 inches on May 11. Precipitation in the upper Delaware River Basin during the past 12 months was 10.99 inches more than the long-term average. Precipitation during May was 2.78 inches less than the long-term average for the month.

Combined storage June 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 97 percent of capacity above the point of maximum depletion. The combined storage of 263 billion gallons was 8 billion gallons less than that of one month ago and 9 billion gallons less than that of one year ago. Median storage on the first day of June in 40 years of record is 270 billion gallons. Pepacton and Cannonsville Reservoirs spilled 1.0 and 0.3 billion gallons, respectively, during May.

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 May were above average in 14 of 20 observation wells. Water levels in 16 of the wells were below April 2007 levels, and water levels in 14 of the wells were above May 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 May 2006		June 2006 to May 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
June	4.00	43.64	11.62	54.63	290	125	+7.62	+10.99
July	4.06	39.64	3.12	43.01	77	109	-.94	+3.37
Aug.	3.89	35.58	6.13	39.89	158	112	+2.24	+4.31
Sept.	4.04	31.69	5.04	33.76	125	107	+1.00	+2.07
Oct.	3.54	27.65	5.16	28.72	146	104	+1.62	+1.07
Nov.	3.80	24.11	4.70	23.56	124	98	+.90	-.55
Dec.	3.40	20.31	*2.12	18.86	62	93	-1.28	-1.45
Jan.	3.05	16.91	3.40	16.74	111	99	+.35	-.17
Feb.	2.59	13.86	2.96	13.34	114	96	+.37	-.52
Mar.	3.33	11.27	3.61	10.38	108	92	+.28	-.89
Apr.	3.76	7.94	5.37	6.77	143	85	+1.61	-1.17
May	4.18	4.18	1.40	1.40	33	33	-2.78	-2.78

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	1940-2005			2007 Monthly mean	Percent of median
	Maximum	Median	Minimum		
May (observed)	16,090 (1943)	6,910	2,215 (1965)	3,595	52
May (adjusted)	18,970 (1989)	8,124	2,944 (1941)	4,183	51
June (observed)	15,200 (1972)	3,284	1,214 (1965)		
June (adjusted)	16,010 (1972)	3,961	1,024 (1962)		