

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

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

Adjusted streamflow in the upper Delaware River Basin during June was in the normal range. The maximum daily mean discharge of 4,150 cfs was recorded on June 21. The minimum daily mean discharge was 1,740 cfs on June 25.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during June was 2,142 cfs, which is 65 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 2,141 cfs, or 54 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during June was 3.46 inches, which is 84 percent of the 66-year average. The maximum daily-average precipitation during the month was 0.65 inches on June 4. Precipitation in the upper Delaware River Basin during the past 12 months was 2.71 inches more than the long-term average. Precipitation during June was 0.66 inches less than the long-term average for the month.

Combined storage July 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 91 percent of capacity above the point of maximum depletion. The combined storage of 245 billion gallons was 18 billion gallons less than that of one month ago and 34 billion gallons less than that of one year ago. Median combined storage on the first day of July in 40 years of record is 257 billion gallons.

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 June were above average in 10 of 20 observation wells. Water levels in all of the wells were below May 2007 levels, and water levels in 11 of the wells were below June 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 June 2006		July 2006 to June 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
July	4.06	43.76	3.12	46.47	77	106	-.94	+2.71
Aug.	3.89	39.70	6.13	43.35	158	109	+2.24	+3.65
Sept.	4.04	35.81	5.04	37.22	125	104	+1.00	+1.41
Oct.	3.54	31.77	5.16	32.18	146	101	+1.62	+4.1
Nov.	3.80	28.23	4.70	27.02	124	96	+.90	-1.21
Dec.	3.40	24.43	2.12	22.32	62	91	-1.28	-2.11
Jan.	3.05	21.03	3.40	20.20	111	96	+.35	-.83
Feb.	2.59	17.98	2.96	16.80	114	93	+.37	-1.18
Mar.	3.33	15.39	3.61	13.84	108	90	+.28	-1.55
Apr.	3.76	12.06	5.37	10.23	143	85	+1.61	-1.83
May	4.18	8.30	1.40	4.86	33	59	-2.78	-3.44
June	4.12	4.12	3.46	3.46	84	84	-.66	-.66

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		
June (observed)	15,200 (1972)	3,284	1,214 (1965)	2,142	65
June (adjusted)	16,010 (1972)	3,961	1,024 (1962)	2,141	54
July (observed)	11,220 (1945)	2,442	864 (1954)		
July (adjusted)	11,470 (1945)	2,138	391 (1965)		