

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

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

Adjusted streamflow in the upper Delaware River Basin during July was in the normal range. The maximum daily mean discharge of 4,390 cfs was recorded on July 29. The minimum daily mean discharge was 1,260 cfs on July 22.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during July was 2,275 cfs, which is 93 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 1,842 cfs, or 86 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during July was 5.76 inches, which is 143 percent of the 66-year average. The maximum daily-average precipitation during the month was 1.71 inches on July 24. Precipitation in the upper Delaware River Basin during the past 12 months was 5.89 inches more than the long-term average. Precipitation during July was 1.72 inches more than the long-term average for the month.

Combined storage August 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 80 percent of capacity above the point of maximum depletion. The combined storage of 217 billion gallons was 28 billion gallons less than that of one month ago and 45 billion gallons less than that of one year ago. Median combined storage on the first day of August in 40 years of record is 232 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 July were above average in 10 of 20 observation wells. Water levels in all of the wells were below June 2007 levels, and water levels in 15 of the wells were below July 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 July 2006		August 2006 to July 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Aug.	3.89	43.74	6.13	49.63	158	113	+2.24	+5.89
Sept.	4.04	39.85	5.04	43.50	125	109	+1.00	+3.65
Oct.	3.54	35.81	5.16	38.46	146	107	+1.62	+2.65
Nov.	3.80	32.27	4.70	33.30	124	103	+0.90	+1.03
Dec.	3.40	28.47	2.12	28.60	62	100	-1.28	+0.13
Jan.	3.05	25.07	*3.92	26.48	129	106	+0.87	+1.41
Feb.	2.59	22.02	2.96	22.56	114	102	+0.37	+0.54
Mar.	3.33	19.43	3.61	19.60	108	101	+0.28	+0.17
Apr.	3.76	16.10	5.37	15.99	143	99	+1.61	-0.11
May	4.18	12.34	1.40	10.62	33	86	-2.78	-1.72
June	4.12	8.16	3.46	9.22	84	113	-0.66	+1.06
July	4.04	4.04	5.76	5.76	143	143	+1.72	+1.72

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		
July (observed)	11,220 (1945)	2,442	864 (1954)	2,275	93
July (adjusted)	11,470 (1945)	2,138	391 (1965)	1,842	86
August (observed)	14,230 (1955)	2,096	715 (1954)		
August (adjusted)	17,410 (1955)	1,380	364 (1964)		