

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
August 2006**

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

Adjusted streamflow in the upper Delaware River Basin during August was excessive. The maximum daily mean discharge of 10,200 cfs was recorded on August 30. The minimum daily mean discharge was 1,570 cfs on August 13.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during August was 2,760 cfs, which is 132 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 3,017 cfs, or 191 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during August was 5.40 inches, which is 139 percent of the 65-year average. The maximum daily-average precipitation during the month was 1.33 inches on August 30. Precipitation in the upper Delaware River Basin during the past 12 months was 12.31 inches more than the long-term average. Precipitation during August was 1.51 inches more than the long-term average for the month.

Combined storage September 1, 2006 in Pepacton, Cannonsville, and Neversink Reservoirs was 92 percent of capacity above the point of maximum depletion. The combined storage of 248 billion gallons was 14 billion gallons less than that of one month ago and 77 billion gallons more than that of one year ago. Median storage on the first day of September in 39 years of record is 202 billion gallons. Cannonsville Reservoir spilled 0.4 billion gallons in August.

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 August were above average in 14 of 20 observation wells. Water levels in 19 of 20 wells were below July 2006 levels, and water levels in 17 of 20 wells were above August 2005 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 Aug. 2005		September 2005 to August 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Sept.	4.08	43.58	1.72	55.89	42	128	-2.36	+12.31
Oct.	3.42	39.50	11.28	54.17	330	137	+7.86	+14.67
Nov.	3.79	36.08	4.23	42.89	112	119	+4.44	+6.81
Dec.	3.41	32.29	*2.96	38.66	87	120	-.45	+6.37
Jan.	3.02	28.88	*5.19	35.70	172	124	+2.17	+6.82
Feb.	2.61	25.86	*1.56	30.51	60	118	-1.05	+4.65
Mar.	3.36	23.25	1.29	28.95	38	125	-2.07	+5.70
Apr.	3.76	19.89	3.76	27.66	100	139	0	+7.77
May	4.18	16.13	4.45	23.90	106	148	+.27	+7.77
June	4.00	11.95	10.89	19.45	272	163	+6.89	+7.50
July	4.06	7.95	3.16	8.56	78	108	-.90	+6.1
Aug.	3.89	3.89	5.40	5.40	139	139	+1.51	+1.51

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			2006 Monthly mean	Percent of median
	Maximum	Median	Minimum		
August (observed)	14,230 (1955)	2,096	715 (1954)	2,760	132
August (adjusted)	17,410 (1955)	1,380	364 (1964)	3,017	219
September (observed)	17,200 (2004)	2,016	892 (1941)		
September (adjusted)	18,310 (2004)	1,462	324 (1964)		