

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
August 2005**

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

Adjusted streamflow in the upper Delaware River Basin during August was deficient. The maximum daily mean discharge of 2,710 cfs occurred on August 27. The minimum daily mean discharge was 1,560 cfs on August 17.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during August was 1,884 cfs, which is 90 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 742 cfs, or 47 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during August was 3.59 inches, which is 92 percent of the 64-year average. The maximum daily-average precipitation during the month was 0.72 inches on August 13. Precipitation in the upper Delaware River Basin during the past 12 months was 4.70 inches more than the long-term average. Precipitation during August was 0.30 inches less than the long-term average for the month.

Combined storage September 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 63 percent of capacity above the point of maximum depletion. The combined storage of 171 billion gallons was 43 billion gallons less than that of one month ago and 98 billion gallons less than that of one year ago. Median storage on the first day of September in 38 years of record is 203 billion gallons.

As part of a statewide network, the USGS operates 12 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during August were below average in 8 of the wells. Water levels in 11 of the wells were below July 2005 levels, and water levels in all of the wells were below August 2004 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 August 2004		September 2004 to August 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Sept.	3.99	43.46	9.50	48.16	238	111	+5.51	+4.70
Oct.	3.43	39.47	2.45	38.66	71	98	-.98	-.81
Nov.	3.80	36.04	3.56	36.21	94	100	-.24	+.17
Dec.	3.40	32.24	4.12	32.65	121	101	+.72	+.41
Jan.	2.97	28.84	5.96	28.53	201	99	+2.99	-.31
Feb.	2.62	25.87	1.86	22.57	71	87	-.76	-3.30
Mar.	3.34	23.25	4.23	20.71	127	89	+.89	-2.54
Apr.	3.72	19.91	5.26	16.48	141	83	+1.54	-3.43
May	4.22	16.19	1.31	11.22	31	69	-2.91	-4.97
June	4.01	11.97	3.40	9.91	85	83	-.61	-2.06
July	4.07	7.96	2.92	6.51	72	82	-1.15	-1.45
Aug.	3.89	3.89	3.59	3.59	92	92	-.30	-.30

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

### STREAMFLOW, IN CFS

DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2003			2005 Monthly mean	Percent of median
	Maximum	Median	Minimum		
August (observed)	14,230 (1955)	2,096	715 (1954)	1,884	90
August (adjusted)	17,410 (1955)	1,380	364 (1964)	742	54
September (observed)	12,270 (1960)	2,016	892 (1941)		
September (adjusted)	14,240 (1960)	1,462	324 (1964)		