

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

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

Adjusted streamflow in the upper Delaware River Basin during September was deficient. The maximum daily mean discharge of 1,970 cfs occurred on September 2. The minimum daily mean discharge was 1,300 cfs on September 18.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during September was 1,728 cfs, which is 86 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 531 cfs, or 35 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during September was 1.72 inches, which is 42 percent of the 64-year average. The maximum daily-average precipitation during the month was 0.59 inches on September 27. Precipitation in the upper Delaware River Basin during the past 5 months was 7.33 inches less than the long-term average. Precipitation during September was 2.36 inches less than the long-term average for the month.

Combined storage October 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 47 percent of capacity above the point of maximum depletion. The combined storage of 128 billion gallons was 42 billion gallons less than that of one month ago and 144 billion gallons less than that of one year ago. Median storage on the first day of October in 38 years of record is 178 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 September were below average in 9 of the wells. Water levels in all of the wells were below August 2005 levels, and water levels in all of the wells were below September 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 Sept. 2004		October 2004 to September 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Oct.	3.43	43.55	2.45	40.98	71	94	-.98	-2.57
Nov.	3.80	40.12	3.56	38.53	94	96	-.24	-1.59
Dec.	3.40	36.32	4.12	34.97	121	96	+.72	-1.35
Jan.	2.97	32.92	5.96	30.85	201	94	+2.99	-2.07
Feb.	2.62	29.95	*2.03	24.89	77	83	-.59	-5.06
Mar.	3.34	27.33	*4.66	22.86	140	84	+1.32	-4.47
Apr.	3.72	23.99	5.26	18.20	141	76	+1.54	-5.79
May	4.22	20.27	1.31	12.94	31	64	-2.91	-7.33
June	4.01	16.05	3.40	11.63	85	72	-.61	-4.42
July	4.07	12.04	2.92	8.23	72	68	-1.15	-3.81
Aug.	3.89	7.97	3.59	5.31	92	67	-.30	-2.66
Sept.	4.08	4.08	1.72	1.72	42	42	-2.36	-2.36

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	1940-2003			2005 Monthly mean	Percent of median
	Maximum	Median	Minimum		
September (observed)	12,720 (1960)	2,016	892 (1941)	1,728	86
September (adjusted)	14,240 (1960)	1,462	324 (1964)	531	36
October (observed)	15,690 (1955)	2,352	807 (1941)		
October (adjusted)	18,570 (1955)	2,199	322 (1964)		