

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

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

Adjusted streamflow in the upper Delaware River Basin during September was in the normal range. The maximum daily mean discharge of 2,440 cfs was recorded on September 13. The minimum daily mean discharge was 1,650 cfs on September 21.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during September was 1,856 cfs, which is 92 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 1,538 cfs, or 105 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during September was 2.34 inches, which is 58 percent of the 66-year average. The maximum daily-average precipitation during the month was 0.85 inches on September 12. Precipitation in the upper Delaware River Basin during the past 12 months was 1.11 inches more than the long-term average. Precipitation during September was 1.72 inches less than the long-term average for the month.

Combined storage October 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 62 percent of capacity above the point of maximum depletion. The combined storage of 168 billion gallons was 23 billion gallons less than that of one month ago and 79 billion gallons less than that of one year ago. Median combined storage on the first day of October in 40 years of record is 178 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 September were below average in 14 of 20 observation wells. Water levels in 19 of the wells were below August 2007 levels, and water levels in 19 of the wells were below September 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 August 2006		October 2006 to September 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Oct.	3.54	43.79	5.16	44.90	146	103	+1.62	+1.11
Nov.	3.80	40.25	4.70	39.74	124	99	+.90	-.51
Dec.	3.40	36.45	2.12	35.04	62	96	-1.28	-1.41
Jan.	3.05	33.05	3.92	32.92	129	100	+.87	-.13
Feb.	2.59	30.00	3.12	29.00	120	97	+.53	-1.00
Mar.	3.33	27.41	3.66	25.88	110	94	+.33	-1.53
Apr.	3.76	24.08	5.37	22.22	143	92	+1.61	-1.86
May	4.18	20.32	1.40	16.85	33	83	-2.78	-3.47
June	4.12	16.14	3.46	15.45	84	96	-.66	-.69
July	4.04	12.02	5.76	11.99	143	100	+1.72	-.03
Aug.	3.92	7.98	3.89	6.23	99	78	-.03	-1.75
Sept.	4.06	4.06	2.34	2.34	58	58	-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		
September (observed)	17,200 (2004)	2,016	892 (1941)	1,856	92
September (adjusted)	18,310 (2004)	1,462	324 (1964)	1,538	105
October (observed)	15,690 (1955)	2,390	807 (1941)		
October (adjusted)	18,570 (1955)	2,279	322 (1964)		