

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
September 2008**

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 2,550 cfs was recorded on September 30. The minimum daily mean discharge was 1,480 cfs on September 8.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during September was 1,932 cfs, which is 96 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 1,678 cfs, or 111 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during September was 4.81 inches, which is 119 percent of the 67-year average. The maximum daily-average precipitation during the month was 1.07 inches on September 7. Precipitation in the upper Delaware River Basin during the past 12 months was 9.30 inches more than the long-term average. Precipitation during September was 0.77 inches more than the long-term average for the month.

Combined storage October 1, 2008 in Pepacton, Cannonsville, and Neversink Reservoirs was 72 percent of capacity above the point of maximum depletion. The combined storage of 196 billion gallons was 19 billion gallons less than that of one month ago and 28 billion gallons more than that of one year ago. Median combined storage on the first day of October in 41 years of record is 177 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 16 of 20 observation wells. Water levels in 17 of the wells were below August 2008 levels, and water levels in 14 of the wells were below September 2007 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. 2007		October 2007 to September 2008					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Oct.	3.56	43.79	6.82	53.09	192	121	+3.26	+9.30
Nov.	3.81	40.23	4.31	46.27	113	115	+.50	+6.04
Dec.	3.38	36.42	5.33	41.96	158	115	+1.95	+5.54
Jan.	3.06	33.04	2.15	36.63	70	111	-.91	+3.59
Feb.	2.60	29.98	6.30	34.48	242	115	+3.70	+4.50
Mar.	3.33	27.38	*6.52	28.18	196	103	+3.19	+.80
Apr.	3.78	24.05	*3.22	21.66	85	90	-.56	-2.39
May	4.15	20.27	2.68	18.44	65	91	-1.47	-1.83
June	4.10	16.12	3.23	15.76	79	98	-.87	-.36
July	4.07	12.02	5.48	12.53	135	104	+1.41	+5.51
Aug.	3.91	7.95	2.24	7.05	57	89	-1.67	-.90
Sept.	4.04	4.04	4.81	4.81	119	119	+.77	+7.77

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	1940-2007			2008 Monthly mean	Percent of median
	Maximum	Median	Minimum		
September (observed)	17,200 (2004)	2,016	892 (1941)	1,932	96
September (adjusted)	18,310 (2004)	1,510	324 (1964)	1,678	111
October (observed)	15,690 (1955)	2,438	807 (1941)		
October (adjusted)	18,570 (1955)	2,351	322 (1964)		