

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

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

Adjusted streamflow in the upper Delaware River Basin during October was in the normal range. The maximum daily mean discharge of 16,500 cfs was recorded on October 28. The minimum daily mean discharge was 1,550 cfs on October 19.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during October was 3,602 cfs, which is 151 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 5,242 cfs, or 203 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during October was 7.01 inches, which is 197 percent of the 66-year average. The maximum daily-average precipitation during the month was 1.58 inches on October 12. Precipitation in the upper Delaware River Basin during the past 12 months was 2.94 inches more than the long-term average. Precipitation during October was 3.45 inches more than the long-term average for the month.

Combined storage November 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 65 percent of capacity above the point of maximum depletion. The combined storage of 177 billion gallons was 9 billion gallons more than that of one month ago and 91 billion gallons less than that of one year ago. Median combined storage on the first day of November in 40 years of record is 161 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 October were below average in 17 of 20 observation wells. Water levels in 19 of the wells were below September 2007 levels, and water levels in all of the wells were below October 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 October 2006		November 2006 to October 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Nov.	3.80	43.81	4.70	46.75	124	107	+0.90	+2.94
Dec.	3.40	40.01	2.12	42.05	62	105	-1.28	+2.04
Jan.	3.05	36.61	3.92	39.93	129	109	+0.87	+3.32
Feb.	2.59	33.56	3.12	36.01	120	107	+0.53	+2.45
Mar.	3.33	30.97	3.66	32.89	110	106	+0.33	+1.92
Apr.	3.76	27.64	5.37	29.23	143	106	+1.61	+1.59
May	4.18	23.88	1.40	23.86	33	100	-2.78	-.02
June	4.12	19.70	3.46	22.46	84	114	-.66	+2.76
July	4.04	15.58	5.76	19.00	143	122	+1.72	+3.42
Aug.	3.92	11.54	3.89	13.24	99	115	-.03	+1.70
Sept.	4.06	7.62	2.34	9.35	58	123	-1.72	+1.73
Oct.	3.56	3.56	7.01	7.01	197	197	+3.45	+3.45

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

### STREAMFLOW, IN CFS DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2005			2007 Monthly mean	Percent of median
	Maximum	Median	Minimum		
October (observed)	15,690 (1955)	2,390	807 (1941)	3,602	151
October (adjusted)	18,570 (1955)	2,279	322 (1964)	5,242	230
November (observed)	13,010 (2003)	4,642	995 (1964)		
November (adjusted)	16,160 (1972)	6,100	390 (1964)		