

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
October 2011**

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

Adjusted streamflow in the upper Delaware River Basin during October was excessive for the eighth consecutive month. The maximum daily mean discharge of 28,700 cfs was recorded on October 1. The minimum daily mean discharge was 5,190 cfs on October 27.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during October was 10,710 cfs, which is 429 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 10,920 cfs, or 435 percent of median.

On the basis of a 5-station average, precipitation during October was 3.71 inches, which is 100 percent of the 70-year average. The maximum daily-average precipitation during the month was 0.57 inches on October 14. Precipitation in the upper Delaware River Basin during the past 12 months was 25.30 inches more than the long-term average. Precipitation during October was equal to the long-term average for the month.

Combined storage November 1, 2011 in Pepacton, Cannonsville, and Neversink Reservoirs was 95 percent of capacity above the point of maximum depletion. The combined storage of 258 billion gallons was 13 billion gallons less than that of one month ago and 43 billion gallons more than that of one year ago. Median storage on the first day of November in 44 years of record is 168 billion gallons. Pepacton and Neversink Reservoirs spilled a total of 3.5 and 3.2 billion gallons, respectively, during the month.

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 above average in all 21 observation wells. Water levels in 14 of the wells were above September 2011 levels, and water levels in all of the wells were above October 2010 levels. Water levels in 14 wells set new maximums for October.

## 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 Oct. 2010		November 2010 to October 2011					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Nov.	3.77	44.13	3.00	69.43	80	157	-.77	+25.30
Dec.	3.46	40.36	3.84	66.43	111	165	+.38	+26.07
Jan.	3.04	36.90	1.75	62.59	58	170	-1.29	+25.69
Feb.	2.65	33.86	3.80	60.84	143	180	+1.15	+26.98
Mar.	3.39	31.21	6.09	57.04	180	183	+2.70	+25.83
Apr.	3.74	27.82	7.00	50.95	187	183	+3.26	+23.13
May	4.14	24.08	5.79	43.95	140	183	+1.65	+19.87
June	4.13	19.94	6.29	38.16	152	191	+2.16	+18.22
July	4.14	15.81	4.72	31.87	114	202	+.58	+16.06
Aug.	3.96	11.67	11.85	27.15	299	233	+7.89	+15.48
Sept.	4.00	7.71	11.59	15.30	290	198	+7.59	+7.59
Oct.	3.71	3.71	3.71	3.71	100	100	0.00	0.00

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

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

Month	1940-2010			2011 Monthly mean	Percent of median
	Maximum	Median	Minimum		
October (observed)	15,690 (1955)	2,495	807 (1941)	10,710	429
October (adjusted)	18,570 (1955)	2,509	322 (1964)	10,920	435
November (observed)	13,010 (2003)	4,798	995 (1964)		
November (adjusted)	16,160 (1972)	6,262	390 (1964)		