

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
October 2010**

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

Adjusted streamflow in the upper Delaware River Basin during October was excessive. The maximum daily mean discharge of 48,600 cfs was recorded on October 1. The minimum daily mean discharge was 2,800 cfs on October 26.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during October was 9,531 cfs, which is 386 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 13,450 cfs, or 521 percent of median (water years 1971-2000).

On the basis of a 10-station average, precipitation during October was 9.07 inches, which is 249 percent of the 69-year average. The maximum daily-average precipitation during the month was 5.39 inches on October 1. Precipitation in the upper Delaware River Basin during the past 12 months was 4.12 inches more than the long-term average. Precipitation during October was 5.43 inches more than the long-term average for the month.

Combined storage November 1, 2010 in Pepacton, Cannonsville, and Neversink Reservoirs was 79 percent of capacity above the point of maximum depletion. The combined storage of 214 billion gallons was 52 billion gallons more than that of one month ago and 27 billion gallons less than that of one year ago. Median storage on the first day of November in 43 years of record is 166 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 11 of 21 observation wells. Water levels in 19 of the wells were above September 2010 levels, and water levels in 17 of the wells were below October 2009 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 Oct. 2009		November 2009 to October 2010					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Nov.	3.80	44.09	1.62	48.21	43	109	-2.18	+4.12
Dec.	3.45	40.29	4.35	46.59	126	116	+0.90	+6.30
Jan.	3.05	36.84	2.90	42.24	95	115	-0.15	+5.40
Feb.	2.64	33.79	3.47	39.34	131	116	+0.83	+5.55
Mar.	3.36	31.15	5.36	35.87	160	115	+2.00	+4.72
Apr.	3.75	27.79	2.86	30.51	76	110	-0.89	+2.72
May	4.16	24.04	*3.02	27.65	73	115	-1.14	+3.61
June	4.14	19.88	3.94	24.63	95	124	-0.20	+4.75
July	4.13	15.74	4.12	20.69	100	131	-0.01	+4.95
Aug.	3.94	11.61	5.10	16.57	129	143	+1.16	+4.96
Sept.	4.03	7.67	2.40	11.47	60	150	-1.63	+3.80
Oct.	3.64	3.64	9.07	9.07	249	249	+5.43	+5.43

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	1940-2009			2010 Monthly mean	Percent of median
	Maximum	Median	Minimum		
October (observed)	15,690 (1955)	2,472	807 (1941)	9,531	386
October (adjusted)	18,570 (1955)	2,452	322 (1964)	13,450	549
November (observed)	13,010 (2003)	4,764	995 (1964)		
November (adjusted)	16,160 (1972)	6,359	390 (1964)		