

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
October 2009**

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 18,400 cfs was recorded on October 29. The minimum daily mean discharge was 1,650 cfs on October 7.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during October was 3,923 cfs, which is 160 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 5,273 cfs, or 204 percent of median (water years 1971-2000).

On the basis of a 10-station average, precipitation during October was 4.68 inches, which is 129 percent of the 68-year average. The maximum daily-average precipitation during the month was 1.20 inches on October 25. Precipitation in the upper Delaware River Basin during the past 6 months was 8.79 inches more than the long-term average. Precipitation during October was 1.06 inches more than the long-term average for the month.

Combined storage November 1, 2009 in Pepacton, Cannonsville, and Neversink Reservoirs was 89 percent of capacity above the point of maximum depletion. The combined storage of 242 billion gallons was 5 billion gallons more than that of one month ago and 52 billion gallons more than that of one year ago. Median storage on the first day of November in 42 years of record is 165 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 above average in 14 of 20 observation wells. Water levels in 18 of the wells were below September 2009 levels, and water levels in 19 of the wells were above October 2008 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. 2008		November 2008 to October 2009					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Nov.	3.82	43.97	2.18	50.33	57	114	-1.64	+6.36
Dec.	3.41	40.15	6.17	48.15	181	120	+2.76	+8.00
Jan.	3.05	36.74	2.91	41.98	95	114	-.14	+5.24
Feb.	2.65	33.69	1.51	39.07	57	116	-1.14	+5.38
Mar.	3.38	31.04	2.53	37.56	75	121	-.85	+6.52
Apr.	3.78	27.66	2.36	35.03	62	127	-1.42	+7.37
May	4.13	23.88	*6.14	32.67	149	137	+2.01	+8.79
June	4.09	19.75	7.19	26.53	176	134	+3.10	+6.78
July	4.10	15.66	6.32	19.34	154	123	+2.22	+3.68
Aug.	3.89	11.56	6.12	13.02	157	113	+2.23	+1.46
Sept.	4.05	7.67	2.22	6.90	55	90	-1.83	-.77
Oct.	3.62	3.62	4.68	4.68	129	129	+1.06	+1.06

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	1940-2008			2009 Monthly mean	Percent of median
	Maximum	Median	Minimum		
October (observed)	15,690 (1955)	2,449	807 (1941)	3,923	160
October (adjusted)	18,570 (1955)	2,395	322 (1964)	5,273	220
November (observed)	13,010 (2003)	4,798	955 (1964)		
November (adjusted)	16,160 (1972)	6,455	390 (1964)		