

**SUMMARY OF HYDROLOGIC CONDITIONS  
IN THE  
UPPER DELAWARE RIVER BASIN  
October 2006**

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 fifth consecutive month. The maximum daily mean discharge of 29,600 cfs was recorded on October 29. The minimum daily mean discharge was 3,110 cfs on October 16.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during October was 7,586 cfs, which is 317 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 9,200 cfs, or 357 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during October was 4.86 inches, which is 137 percent of the 65-year average. The maximum daily-average precipitation during the month was 1.21 inches on October 28. Precipitation in the upper Delaware River Basin during the past 12 months was 9.06 inches more than the long-term average. Precipitation during October was 1.32 inches more than the long-term average for the month.

Combined storage November 1, 2006 in Pepacton, Cannonsville, and Neversink Reservoirs was 99 percent of capacity above the point of maximum depletion. The combined storage of 269 billion gallons was 22 billion gallons more than that of one month ago and 99 billion gallons more than that of one year ago. Median storage on the first day of November in 39 years of record is 156 billion gallons. Cannonsville Reservoir spilled 3.0 billion gallons in October.

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 18 of 20 observation wells. Water levels in 14 of 20 wells were above September 2006 levels, and water levels in 18 of 20 wells were above October 2005 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. 2005		November 2005 to October 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Nov.	3.79	43.66	4.23	52.72	112	121	+0.44	+9.06
Dec.	3.41	39.87	2.96	48.49	87	122	-0.45	+8.62
Jan.	3.02	36.46	5.19	45.53	172	125	+2.17	+9.07
Feb.	2.61	33.44	1.56	40.34	60	121	-1.05	+6.90
Mar.	3.36	30.83	1.32	38.78	39	126	-2.04	+7.95
Apr.	3.76	27.47	*3.80	37.46	101	136	+0.04	+9.99
May	4.18	23.71	4.45	33.66	106	142	+0.27	+9.95
June	4.00	19.53	10.89	29.21	272	150	+6.89	+9.68
July	4.06	15.53	3.16	18.32	78	118	-0.90	+2.79
Aug.	3.89	11.47	5.40	15.16	139	132	+1.51	+3.69
Sept.	4.04	7.58	4.90	9.76	121	129	+0.86	+2.18
Oct.	3.54	3.54	4.86	4.86	137	137	+1.32	+1.32

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	1940-2005			2006 Monthly mean	Percent of median
	Maximum	Median	Minimum		
October (observed)	15,690 (1955)	2,390	807 (1941)	7,586	317
October (adjusted)	18,570 (1955)	2,279	322 (1964)	9,200	404
November (observed)	13,010 (2003)	4,642	995 (1964)		
November (adjusted)	16,160 (1972)	6,100	390 (1964)		