

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
October 2005**

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 24,700 cfs occurred on October 13. The minimum daily mean discharge was 1,690 cfs on October 1.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during October was 10,060 cfs, which is 427 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 12,950 cfs, or 502 percent of median (water years 1971-2000).

On the basis of an 11-station average, precipitation during October was 11.83 inches, which is 346 percent of the 64-year average. This is the second greatest total precipitation amount measured in any month since record keeping began in 1941. The maximum daily-average precipitation during the month was 2.81 inches on October 9. Precipitation in the upper Delaware River Basin during the past 12 months was 7.55 inches more than the long-term average. Precipitation during October was 8.41 inches more than the long-term average for the month.

Combined storage November 1, 2005 in Pepacton, Cannonsville, and Neversink Reservoirs was 63 percent of capacity above the point of maximum depletion. The combined storage of 170 billion gallons was 41 billion gallons more than that of one month ago and 98 billion gallons less than that of one year ago. Median storage on the first day of November in 38 years of record is 152 billion gallons.

As part of a statewide network, the USGS operates 12 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during October were below average in 9 of the wells. Water levels in all of the wells were below September 2005 levels, and water levels in all of the wells were below October 2004 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. 2004		November 2004 to October 2005					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Nov.	3.80	43.54	3.56	51.09	94	117	-.24	+7.55
Dec.	3.40	39.74	4.12	47.53	121	120	+.72	+7.79
Jan.	2.97	36.34	5.96	43.41	201	119	+2.99	+7.07
Feb.	2.62	33.37	2.03	37.45	77	112	-.59	+4.08
Mar.	3.34	30.75	4.66	35.42	140	115	+1.32	+4.67
Apr.	3.72	27.41	*5.78	30.76	155	112	+2.06	+3.35
May	4.22	23.69	*1.52	24.98	36	105	-2.70	+1.29
June	4.01	19.47	3.40	23.46	85	120	-.61	+3.99
July	4.07	15.46	2.92	20.06	72	130	-1.15	+4.60
Aug.	3.89	11.39	3.59	17.14	92	150	-.30	+5.75
Sept.	4.08	7.50	1.72	13.55	42	181	-2.36	+6.05
Oct.	3.42	3.42	11.83	11.83	346	346	+8.41	+8.41

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	1940-2004			2005 Monthly mean	Percent of median
	Maximum	Median	Minimum		
October (observed)	15,690 (1955)	2,355	807 (1941)	10,060	427
October (adjusted)	18,570 (1955)	2,251	322 (1964)	12,950	575
November (observed)	13,010 (2003)	4,555	995 (1964)		
November (adjusted)	16,160 (1972)	5,938	390 (1964)		