

**SUMMARY OF HYDROLOGIC CONDITIONS  
FOR THE  
UPPER DELAWARE RIVER BASIN  
September 2000**

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

Adjusted streamflow in the upper Delaware River basin during September was excessive for the fifth consecutive month. The maximum daily discharge of 6,240 cfs occurred on September 14. The minimum daily discharge was 1,850 cfs on September 24.

On the basis of a multi-station average, precipitation during September was 3.53 inches, which was 92 percent of the 59-year average. The maximum daily-average precipitation during September was 1.46 inches on September 13. Precipitation in the upper Delaware River Basin during the past 12 months was 3.46 inches greater than the long-term average. Precipitation during September was 0.30 inches less than the long-term average for the month.

The monthly mean streamflow of the Delaware River at Montague, N.J. during September was 2,808 cfs (observed), which was 139 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 2,596 cfs, or 178 percent of median (water years 1961-90).

Combined storage October 1, 2000, in Pepacton, Cannonsville, and Neversink Reservoirs was 88.0 percent of capacity above the point of maximum depletion. The combined storage of 238 billion gallons was 17 billion gallons less than that of one month ago and was 82 billion gallons more than that of one year ago. Median storage on the first day of October in 33 years of record is 177 billion gallons.

As part of a statewide network, the USGS operates 14 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during September were above average in 7 of the wells. Water levels in 13 of the wells were trending downward in comparison to August levels. Water levels in 8 of the wells were above September 1999 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 Sept. 1999		October 1999 to September 2000					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Oct.	3.40	43.24	2.72	46.70	80	108	-.68	+3.46
Nov.	3.87	39.84	2.75	43.98	71	110	-1.12	+4.14
Dec.	3.37	35.97	1.84	41.23	55	115	-1.53	+5.26
Jan.	3.02	32.60	3.44	39.39	114	121	+4.2	+6.79
Feb.	2.64	29.58	3.26	35.95	123	122	+6.2	+6.37
Mar.	3.32	26.94	4.08	32.69	123	121	+7.6	+5.75
Apr.	3.76	23.62	*4.81	28.61	128	121	+1.05	+4.99
May	4.17	19.86	5.76	23.80	138	120	+1.59	+3.94

June	3.91	15.69	6.67	18.04	171	115	+2.76	+2.35
July	4.09	11.78	4.24	11.37	104	97	+1.15	-.41
Aug.	3.86	7.69	3.60	7.13	93	93	-.26	-.56
Sept.	3.83	3.83	3.53	3.53	92	92	-.30	-.30

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

\* Revised since previous month

STREAMFLOW, IN CFS							
DELAWARE RIVER AT MONTAGUE, N.J.							
Month	1940-98					Monthly mean	Percent of median
	Maximum	Median	Minimum				
September (observed)	9,167	(1960)	2,016	892	(1941)	2,808	139
September (adjusted)	10,720	(1960)	1,462	324	(1964)	2,596	178
October (observed)	15,690	(1955)	2,326	807	(1941)		
October (adjusted)	18,570	(1955)	2,130	322	(1964)		