

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
February 2007**

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

Adjusted streamflow in the upper Delaware River Basin during February was deficient. The maximum daily mean discharge of 5,000 cfs was recorded on February 1. The minimum daily mean discharge was 2,100 cfs on February 18.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during February was 3,374 cfs, which is 64 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 2,660 cfs, or 37 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during February was 2.96 inches, which is 114 percent of the 66-year average. The maximum daily-average precipitation during the month was 1.30 inches on February 15. Precipitation in the upper Delaware River Basin during the past 12 months was 9.54 inches more than the long-term average. Precipitation during February was 0.37 inches more than the long-term average for the month.

Combined storage March 1, 2007 in Pepacton, Cannonsville, and Neversink Reservoirs was 87 percent of capacity above the point of maximum depletion. The combined storage of 234 billion gallons was 28 billion gallons less than that of one month ago and 33 billion gallons less than that of one year ago. Median storage on the first day of March in 39 years of record is 224 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 February were below average in 11 of 20 observation wells. Water levels in 17 of 20 wells were below January 2007 levels, and water levels in 15 of 20 wells were below February 2006 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 Feb. 2006		March 2006 to February 2007					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Mar.	3.36	43.67	1.32	53.21	39	122	-2.04	+9.54
Apr.	3.76	40.31	3.80	51.89	101	129	+0.04	+11.58
May	4.18	36.55	4.43	48.09	106	132	+0.25	+11.54
June	4.00	32.37	11.62	43.66	290	135	+7.62	+11.29
July	4.06	28.37	3.12	32.04	77	113	-0.94	+3.67
Aug.	3.89	24.31	6.13	28.92	158	119	+2.24	+4.61
Sept.	4.04	20.42	*5.04	22.79	125	112	+1.00	+2.37
Oct.	3.54	16.38	*5.16	17.75	146	108	+1.62	+1.37
Nov.	3.80	12.84	4.31	12.59	113	98	+0.51	-0.25
Dec.	3.40	9.04	1.92	8.28	56	92	-1.48	-0.76
Jan.	3.05	5.64	3.40	6.36	111	113	+0.35	+0.72
Feb.	2.59	2.59	2.96	2.96	114	114	+0.37	+0.37

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			2007 Monthly mean	Percent of median
	Maximum	Median	Minimum		
February (observed)	15,120 (1976)	5,295	1,748 (1980)	3,374	64
February (adjusted)	20,330 (1981)	5,613	1,373 (1980)	2,660	47
March (observed)	24,480 (1945)	9,152	3,191 (1981)		
March (adjusted)	25,910 (1945)	10,975	4,428 (1981)		