

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

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

Adjusted streamflow in the upper Delaware River Basin during February was excessive. The maximum daily mean discharge of 22,900 cfs was recorded on February 5. The minimum daily mean discharge was 3,660 cfs on February 26 and 27.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during February was 9,944 cfs, which is 194 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 9,694 cfs, or 133 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during February was 1.39 inches, which is 53 percent of the 65-year average. The maximum daily-average precipitation during the month was 0.42 inches on February 3 and 5. Precipitation in the upper Delaware River Basin during the past 12 months was 4.56 inches more than the long-term average. Precipitation during February was 1.22 inches less than the long-term average for the month.

Combined storage March 1, 2006 in Pepacton, Cannonsville, and Neversink Reservoirs was 99 percent of capacity above the point of maximum depletion. The combined storage of 268 billion gallons was 7 billion gallons less than that of one month ago and 0.3 billion gallons more than that of one year ago. Median storage on the first day of March in 38 years of record is 222 billion gallons. Pepacton, Cannonsville and Neversink Reservoirs spilled 8.1, 22.1 and 2.6 billion gallons, respectively, in February.

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 February were above average in 9 of the wells. Water levels in 7 of the wells were above January 2006 levels, and water levels in 7 of the wells were below February 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 Feb. 2005		March 2005 to February 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Mar.	3.34	43.58	4.66	48.14	140	110	+1.32	+4.56
Apr.	3.72	40.24	5.78	43.48	155	108	+2.06	+3.24
May	4.22	36.52	1.52	37.70	36	103	-2.70	+1.18
June	4.01	32.30	3.25	36.18	81	112	-.76	+3.88
July	4.07	28.29	2.97	32.93	73	116	-1.10	+4.64
Aug.	3.89	24.22	*3.57	29.96	92	124	-.32	+5.74
Sept.	4.08	20.33	1.72	26.39	42	130	-2.36	+6.06
Oct.	3.42	16.25	11.83	24.67	346	152	+8.41	+8.42
Nov.	3.79	12.83	3.91	12.84	103	100	+.12	+.01
Dec.	3.41	9.04	2.64	8.93	77	99	-.77	-.11
Jan.	3.02	5.63	4.90	6.29	162	112	+1.88	+6.66
Feb.	2.61	2.61	1.39	1.39	53	53	-1.22	-1.22

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			2006 Monthly mean	Percent of median
	Maximum	Median	Minimum		
February (observed)	15,120 (1976)	5,134	1,748 (1980)	9,944	194
February (adjusted)	20,330 (1981)	5,610	1,373 (1980)	9,694	173
March (observed)	24,480 (1945)	9,135	3,191 (1981)		
March (adjusted)	25,910 (1945)	11,000	4,428 (1981)		