

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

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

Adjusted streamflow in the upper Delaware River Basin during January was excessive. The maximum daily mean discharge of 57,500 cfs was recorded on January 19. The minimum daily mean discharge was 5,800 cfs on January 10.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during January was 15,990 cfs, which is 322 percent of median, and set a new maximum for the month. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 17,290 cfs, or 285 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during January was 4.90 inches, which is 162 percent of the 65-year average. The maximum daily-average precipitation during the month was 0.94 inches on January 3. Precipitation in the upper Delaware River Basin during the past 12 months was 5.21 inches more than the long-term average. Precipitation during January was 1.88 inches more than the long-term average for the month.

Combined storage February 1, 2006 in Pepacton, Cannonsville, and Neversink Reservoirs was 101 percent of capacity above the point of maximum depletion. The combined storage of 275 billion gallons was 27 billion gallons more than that of one month ago and 4 billion gallons more than that of one year ago. Combined storage on February 1, 2006 was the highest of record for the first day of February. Median storage on the first day of February in 38 years of record is 219 billion gallons. Pepacton, Cannonsville and Neversink Reservoirs spilled 19.8, 34.7 and 5.8 billion gallons, respectively, in January.

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 January were above average in 10 of the wells and set new record highs for January in 4 of the wells. Water levels in all of the wells were above December 2005 levels, and water levels in 7 of the wells were below January 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 Jan. 2005		February 2005 to January 2006					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Feb.	2.62	43.59	2.03	48.80	77	112	-.59	+5.21
Mar.	3.34	40.97	4.66	46.77	140	114	+1.32	+5.80
Apr.	3.72	37.63	5.78	42.11	155	112	+2.06	+4.48
May	4.22	33.91	1.52	36.33	36	107	-2.70	+2.42
June	4.01	29.69	3.25	34.81	81	117	-.76	+5.12
July	4.07	25.68	*2.97	31.56	73	123	-1.10	+5.88
Aug.	3.89	21.61	3.59	28.59	92	132	-.30	+6.98
Sept.	4.08	17.72	1.72	25.00	42	141	-2.36	+7.28
Oct.	3.42	13.64	11.83	23.28	346	171	+8.41	+9.64
Nov.	3.79	10.22	3.91	11.45	103	112	+.12	+1.23
Dec.	3.41	6.43	2.64	7.54	77	117	-.77	+1.11
Jan.	3.02	3.02	4.90	4.90	162	162	+1.88	+1.88

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		
January (observed)	15,600 (1996)	4,960	1,318 (1981)	15,990	322
January (adjusted)	21,330 (1996)	5,874	1,064 (1981)	17,290	294
February (observed)	15,120 (1976)	5,134	1,748 (1980)		
February (adjusted)	20,330 (1981)	5,610	1,373 (1980)		