SUMMARY OF HYDROLOGIC CONDITIONS IN THE UPPER DELAWARE RIVER BASIN January 2008

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 26,000 cfs was recorded on January 12. The minimum daily mean discharge was 5,810 cfs on January 29.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during January was 10,790 cfs, which is 205 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 11,170 cfs, or 184 percent of median (water years 1971-2000).

On the basis of a 5-station average, precipitation during January was 1.79 inches, which is 58 percent of the 67-year average. The maximum daily-average precipitation during the month was 0.31 inches on January 11. Precipitation in the upper Delaware River Basin during the past 12 months was 3.03 inches more than the long-term average. Precipitation during December was 1.27 inches less than the long-term average for the month.

Combined storage February 1, 2008 in Pepacton, Cannonsville, and Neversink Reservoirs was 93 percent of capacity above the point of maximum depletion. The combined storage of 252 billion gallons was 2 billion gallons more than that of one month ago and 10 billion gallons less than that of one year ago. Median combined storage on the first day of February in 40 years of record is 224 billion gallons. Cannonsville Reservoir spilled a total of 1.9 billion gallons during the month.

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 January were above average in 16 of 20 observation wells. Water levels in 14 of the wells were above December 2007 levels, and water levels in 16 of the wells were below January 2007 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) <u>PRECIPITATION, IN INCHES</u>

	Dec. 1940	to Jan. 2007	February 2007 to January 2008						
	Average		Actual		Percent of average		Excess (+) or deficit (-)		
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative	
Feb.	2.59	43.81	3.12	46.84	120	107	+.53	+3.03	
Mar.	3.33	41.22	3.66	43.72	110	106	+.33	+2.50	
Apr.	3.76	37.89	5.57	40.06	148	106	+1.81	+2.17	
May	4.18	34.13	1.68	34.49	40	101	-2.50	+.36	
June	4.12	29.95	*3.35	32.81	81	110	77	+2.86	
July	4.04	25.83	5.76	29.46	143	114	+1.72	+3.63	
Aug.	3.92	21.79	*3.53	23.70	90	109	39	+1.91	
Sept.	4.06	17.87	2.34	20.17	58	113	-1.72	+2.30	
Oct.	3.56	13.81	7.01	17.83	197	129	+3.45	+4.02	
Nov.	3.81	10.25	4.15	10.82	109	106	+.34	+.57	
Dec.	3.38	6.44	4.88	6.67	144	104	+1.50	+.23	
Jan.	3.06	3.06	1.79	1.79	58	58	-1.27	-1.27	

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

* Revised since last month.

<u>STREAMFLOW, IN CFS</u> DELAWARE RIVER AT MONTAGUE, N.J.

		1940-2006	2008	Percent of		
Month	Maximum	Median	Minimum	Monthly mean	median	
January (observed)	16,060 (2006)	5,271	1,318 (1981)	10,790	205	
January (adjusted)	21,330 (1996)	6,004	1,064 (1981)	11,170	186	
February (observed)	15,120 (1976)	5,456	1,748 (1980)			
February (adjusted)	20,330 (1981)	5,616	1,373 (1980)			