

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
July 2009**

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

Adjusted streamflow in the upper Delaware River Basin during July was excessive. The maximum daily mean discharge of 15,700 cfs was recorded on July 31. The minimum daily mean discharge was 2,380 cfs on July 27.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during July was 4,781 cfs, which is 192 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 5,470 cfs, or 239 percent of median (water years 1971-2000).

On the basis of a 10-station average, precipitation during July was 6.32 inches, which is 154 percent of the 68-year average. The maximum daily-average precipitation during the month was 2.21 inches on July 30. Precipitation in the upper Delaware River Basin during the past 12 months was 4.37 inches more than the long-term average. Precipitation during July was 2.22 inches more than the long-term average for the month.

Combined storage August 1, 2009 in Pepacton, Cannonsville, and Neversink Reservoirs was 100 percent of capacity above the point of maximum depletion. The combined storage of 270 billion gallons was 0.2 billion gallons more than that of one month ago and 30 billion gallons more than that of one year ago. Median storage on the first day of August in 42 years of record is 232 billion gallons. Cannonsville and Neversink Reservoirs spilled 0.3 and 0.6 billion gallons, respectively, 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 July were above average in 14 of 20 observation wells. Water levels in 15 of the wells were below June 2009 levels, and water levels in 15 of the wells were above July 2008 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 July 2008		August 2008 to July 2009					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Aug.	3.91	43.97	2.49	48.34	64	110	-1.42	+4.37
Sept.	4.04	40.06	5.04	45.85	125	114	+1.00	+5.79
Oct.	3.61	36.02	4.33	40.81	120	113	+0.72	+4.79
Nov.	3.82	32.41	2.18	36.48	57	113	-1.64	+4.07
Dec.	3.41	28.59	6.17	34.30	181	120	+2.76	+5.71
Jan.	3.05	25.18	2.91	28.13	95	112	-.14	+2.95
Feb.	2.65	22.13	*1.51	25.22	57	114	-1.14	+3.09
Mar.	3.38	19.48	2.32	23.71	69	122	-1.06	+4.23
Apr.	3.78	16.10	2.22	21.39	59	133	-1.56	+5.29
May	4.13	12.32	5.66	19.17	137	156	+1.53	+6.85
June	4.09	8.19	7.19	13.51	176	165	+3.10	+5.32
July	4.10	4.10	6.32	6.32	154	154	+2.22	+2.22

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	1940-2008			2009 Monthly mean	Percent of median
	Maximum	Median	Minimum		
July (observed)	11,220 (1945)	2,486	864 (1954)	4,781	192
July (adjusted)	11,470 (1945)	2,193	391 (1965)	5,470	249
August (observed)	14,230 (1955)	2,120	715 (1954)		
August (adjusted)	17,410 (1955)	1,507	364 (1964)		