

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

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

Adjusted streamflow in the upper Delaware River Basin during August was excessive for the third consecutive month. The maximum daily mean discharge of 24,000 cfs was recorded on August 11. The minimum daily mean discharge was 4,660 cfs on August 29.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during August was 9,696 cfs, which is 457 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 9,818 cfs, or 621 percent of median (water years 1971-2000).

On the basis of a 10-station average, precipitation during August was 6.12 inches, which is 157 percent of the 68-year average. The maximum daily-average precipitation during the month was 1.27 inches on August 10. Precipitation in the upper Delaware River Basin during the past 12 months was 8.23 inches more than the long-term average. Precipitation during August was 2.23 inches more than the long-term average for the month.

Combined storage September 1, 2009 in Pepacton, Cannonsville, and Neversink Reservoirs was 95 percent of capacity above the point of maximum depletion. The combined storage of 258 billion gallons was 12 billion gallons less than that of one month ago and 43 billion gallons more than that of one year ago. Median storage on the first day of September in 42 years of record is 203 billion gallons. Pepacton, Cannonsville and Neversink Reservoirs spilled less than 0.1, 3.5 and 1.1 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 August were above average in 16 of 20 observation wells. Water levels in 11 of the wells were above July 2009 levels, and water levels in all of the wells were above August 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 Aug. 2008		September 2008 to August 2009					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Sept.	4.04	43.95	5.04	52.18	125	119	+1.00	+8.23
Oct.	3.61	39.91	4.33	47.14	120	118	+.72	+7.23
Nov.	3.82	36.30	2.18	42.81	57	118	-1.64	+6.51
Dec.	3.41	32.48	6.17	40.63	181	125	+2.76	+8.15
Jan.	3.05	29.07	2.91	34.46	95	119	-.14	+5.39
Feb.	2.65	26.02	1.51	31.55	57	121	-1.14	+5.53
Mar.	3.38	23.37	*2.53	30.04	75	129	-.85	+6.67
Apr.	3.78	19.99	2.22	27.51	59	138	-1.56	+7.52
May	4.13	16.21	5.66	25.29	137	156	+1.53	+9.08
June	4.09	12.08	7.19	19.63	176	162	+3.10	+7.55
July	4.10	7.99	6.32	12.44	154	156	+2.22	+4.45
Aug.	3.89	3.89	6.12	6.12	157	157	+2.23	+2.23

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		
August (observed)	14,230 (1955)	2,120	715 (1954)	9,696	457
August (adjusted)	17,410 (1955)	1,507	364 (1964)	9,818	651
September (observed)	17,200 (2004)	1,994	892 (1941)		
September (adjusted)	18,310 (2004)	1,524	324 (1964)		