

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
July 2011**

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

Adjusted streamflow in the upper Delaware River Basin during July was excessive for the fifth consecutive month. The maximum daily mean discharge of 23,400 cfs was recorded on July 4. The minimum daily mean discharge was 2,850 cfs on July 24.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during July was 6,172 cfs, which is 248 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 5,834 cfs, or 266 percent of median.

On the basis of a 10-station average, precipitation during July was 4.72 inches, which is 114 percent of the 70-year average. The maximum daily-average precipitation during the month was 1.15 inches on July 26. Precipitation in the upper Delaware River Basin during the past 12 months was 14.55 inches more than the long-term average. Precipitation during July was 0.58 inches more than the long-term average for the month.

Combined storage August 1, 2011 in Pepacton, Cannonsville, and Neversink Reservoirs was 91 percent of capacity above the point of maximum depletion. The combined storage of 247 billion gallons was 17 billion gallons less than that of one month ago and 29 billion gallons more than that of one year ago. Median storage on the first day of August in 44 years of record is 232 billion gallons. Pepacton and Neversink Reservoirs spilled a total of 1.1, and 1.0 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 12 of 21 observation wells. Water levels in all of the wells were below June 2011 levels, and water levels in 13 of the wells were above July 2010 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 2010		August 2010 to July 2011					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Aug.	3.94	44.07	5.40	58.62	137	133	+1.46	+14.55
Sept.	4.03	40.13	2.44	53.22	61	133	-1.59	+13.09
Oct.	3.64	36.10	8.50	50.78	234	141	+4.86	+14.68
Nov.	3.77	32.46	3.00	42.28	80	130	-.77	+9.82
Dec.	3.46	28.69	3.84	39.28	111	137	+.38	+10.59
Jan.	3.04	25.23	1.75	35.44	58	140	-1.29	+10.21
Feb.	2.65	22.19	3.80	33.69	143	152	+1.15	+11.50
Mar.	3.39	19.54	6.09	29.89	180	153	+2.70	+10.35
Apr.	3.74	16.15	7.00	23.80	187	147	+3.26	+7.65
May	4.14	12.41	5.79	16.80	140	135	+1.65	+4.39
June	4.13	8.27	6.29	11.01	152	133	+2.16	+2.74
July	4.14	4.14	4.72	4.72	114	114	+.58	+.58

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

STREAMFLOW, IN CFS
DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-2010			2011 Monthly mean	Percent of median
	Maximum	Median	Minimum		
July (observed)	11,220 (1945)	2,486	864 (1954)	6,172	248
July (adjusted)	11,470 (1945)	2,193	391 (1965)	5,834	266
August (observed)	14,230 (1955)	2,138	715 (1954)		
August (adjusted)	17,410 (1955)	1,583	364 (1964)		