

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

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

Adjusted streamflow in the upper Delaware River Basin during June was in the normal range. The maximum daily mean discharge of 27,300 cfs was recorded on June 25. The minimum daily mean discharge was 3,490 cfs on June 11.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during June was 7,821 cfs, which is 244 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs, was 8,265 cfs, or 247 percent of median (water years 1981-2010).

On the basis of a 10-station average, precipitation during June was 6.29 inches, which is 152 percent of the 70-year average. The maximum daily-average precipitation during the month was 1.21 inches on June 23. Precipitation in the upper Delaware River Basin during the past 12 months was 14.33 inches more than the long-term average. Precipitation during June was 2.16 inches more than the long-term average for the month.

Combined storage July 1, 2011 in Pepacton, Cannonsville, and Neversink Reservoirs was 98 percent of capacity above the point of maximum depletion. The combined storage of 265 billion gallons was 8 billion gallons less than that of one month ago and 18 billion gallons more than that of one year ago. Median storage on the first day of July in 44 years of record is 257 billion gallons. Pepacton, Cannonsville, and Neversink Reservoirs spilled a total of <0.1, 0.8, 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 June were above average in 17 of 21 observation wells. Water levels in 20 of the wells were below May 2011 levels, and water levels in 15 of the wells were above June 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 June 2010		July 2010 to June 2011					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
July	4.13	44.06	4.49	58.39	109	133	+0.36	+14.33
Aug.	3.94	39.93	5.40	53.90	137	135	+1.46	+13.97
Sept.	4.03	35.99	2.44	48.50	61	135	-1.59	+12.51
Oct.	3.64	31.96	8.50	46.06	234	144	+4.86	+14.10
Nov.	3.77	28.32	3.00	37.56	80	133	-0.77	+9.24
Dec.	3.46	24.55	3.84	34.56	111	141	+0.38	+10.01
Jan.	3.04	21.09	1.75	30.72	58	146	-1.29	+9.63
Feb.	2.65	18.05	3.80	28.97	143	160	+1.15	+10.92
Mar.	3.39	15.40	6.09	25.17	180	163	+2.70	+9.77
Apr.	3.74	12.01	7.00	19.08	187	159	+3.26	+7.07
May	4.14	8.27	5.79	12.08	140	146	+1.65	+3.81
June	4.13	4.13	6.29	6.29	152	152	+2.16	+2.16

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		
June (observed)	20,130 (2006)	3,199	1,214 (1965)	7,821	244
June (adjusted)	21,350 (2006)	3,948	1,024 (1962)	8,265	209
July (observed)	11,220 (1945)	2,486	864 (1954)		
July (adjusted)	11,470 (1945)	2,193	391 (1965)		