

### Delaware River Flow and Storage Data - June 2013



DAY	Delaware at Montague		Lehigh River			Delaware at Trenton		Schuylkill River			Salt Front	New York City	
	Flow (cfs)		Flow (cfs)		DO (mg/l)	Flow (cfs)		Flow (cfs)		Temp (C)		Delaware River Basin Storage	
	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity
6/1/2013	8,850	8,890	689	1,220	7.4	10,100	10,800	1,100	1,170	27.0	71	275.2	101.6%
6/2/2013	8,490	8,260	602	1,150	7.2	12,300	12,100	1,070	1,080	26.3	71	274.0	101.2%
6/3/2013	7,140	6,840	607	1,220	7.4	12,300	11,900	1,100	1,480	25.4	71	273.8	101.1%
6/4/2013	6,100	5,850	568	1,100	7.7	11,200	10,700	1,060	1,280	24.5	71	273.5	101.0%
6/5/2013	5,570	5,270	540	1,000	7.7	9,390	9,210	988	1,060	0.0	71	272.8	100.7%
6/6/2013	4,840	4,690	539	967	7.9	8,480	8,340	931	968	0.0	71	272.2	100.5%
6/7/2013	4,970	5,130	648	1,900	8.5	8,170	12,000	2,030	6,630	20.3	71	272.1	100.5%
6/8/2013	6,930	7,110	1,030	2,250	9.3	27,300	24,600	2,650	14,100	18.9	70	272.4	100.6%
6/9/2013	6,240	6,180	1,140	2,070	9.4	19,100	18,600	1,760	4,050	21.9	70	272.2	100.5%
6/10/2013	5,150	5,500	966	2,260	9.0	15,100	17,800	2,730	9,220	21.1	70	271.8	100.3%
6/11/2013	13,300	15,000	2,720	5,520	9.0	25,300	29,500	4,940	16,400	20.5	69	272.7	100.7%
6/12/2013	17,800	17,100	3,230	5,850	9.2	38,200	38,200	4,120	6,780	20.8	68	273.5	101.0%
6/13/2013	14,800	15,000	2,120	4,940	9.1	34,100	34,300	3,520	5,430	20.2	68	273.7	101.0%
6/14/2013	26,400	31,500	3,490	5,830	9.2	37,300	37,500	4,090	6,210	20.3	66	275.9	101.9%
6/15/2013	34,000	31,600	3,800	6,300	9.6	54,600	53,200	3,140	4,840	21.0	66	276.6	102.1%
6/16/2013	24,000	22,800	2,370	4,050	9.4	48,400	45,400	2,540	3,690	21.1	65	276.1	102.0%
6/17/2013	18,200	17,700	2,120	3,660	9.2	35,600	34,500	2,220	3,090	22.4	65	275.3	101.7%
6/18/2013	14,800	14,400	1,590	3,030	8.9	29,200	28,300	2,000	3,460	21.6	65	274.3	101.3%
6/19/2013	11,600	11,600	1,340	2,680	9.1	25,100	24,300	1,860	3,340	22.6	66	272.9	100.8%
6/20/2013	9,990	9,880	1,160	2,410	8.8	20,100	19,900	1,690	2,420	22.5	66	271.8	100.4%
6/21/2013	8,070	8,260	1,060	2,210	8.4	17,300	17,000	1,490	2,050	24.1	66	270.8	100.0%
6/22/2013	6,820	6,770	1,140	2,030	8.3	14,700	14,600	1,360	1,750	24.8	66	269.9	99.7%
6/23/2013	5,850	5,420	996	1,900	7.8	12,800	12,700	1,300	1,610	25.4	66	269.3	99.4%
6/24/2013	4,710	4,710	750	1,840	7.8	11,300	11,100	1,250	1,490	26.2	66	268.7	99.2%
6/25/2013	4,180	4,550	701	1,600	7.5	10,400	9,900	1,190	1,360	27.3	66	268.2	99.0%
6/26/2013	4,110	4,290	708	1,510	7.6	9,670	9,240	1,250	1,380	26.6	66	268.0	98.9%
6/27/2013	4,180	4,190	717	1,660	7.4	9,120	9,040	1,420	1,820	26.7	66	267.6	98.8%
6/28/2013	5,980	14,100	2,410	2,970	7.7	11,000	10,600	2,520	4,160	25.1	66	268.7	99.2%
6/29/2013	21,100	20,100	2,560	3,880	7.8	13,300	22,200	2,330	3,090	25.7	66	270.0	99.7%
6/30/2013	12,800	12,300	2,210	3,380	8.2	27,900	26,800	2,070	2,670	24.7	66	270.4	99.8%
Observed Average	11,166	1,484	2,746			20,811	2,057	3,936					
Mean monthly	3,167	964	1,987			7,183	1,389	1,847			69		
% of Normal	352.6%	154.0%	138.2%			289.7%	148.2%	213.2%					
<b>TODAY'S RESERVOIR OBSERVATIONS: 6/30/2013</b>													
Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=			270.4	99.8%
	Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=		257.2	95.0%	
Blue Marsh	5.78	100.4%							BG Above Daily Storage Median =		13.2	5.12%	
Beltzville	14.17	102.1%		Neversink 0.52	34.6	99.1%	0	0	BG Above Drought Watch =		80.4		
Directed Releases from Basin Reservoirs (cfs):				Pepacton 0.04	139.4	99.6%	329	0	BG Above Drought Warning =		100.4		
Blue Marsh	0.0	Merrill Creek	0.0	Cannonsville 0.05	96.3	100.7%	444	0	BG Above Drought =		120.4		
Beltzville	0.0	Wallenpaupack	0.0	Rondout 4.00	48.9	98.5%	813	0	BG Above One Year Ago =		18.9		
<b>DATA SOURCES:</b>													
Storage data provided by New York City Department of Environmental Protection, Bureau of Water Supply. <a href="http://www.nyc.gov/html/dep/html/drinking_water/maplevels_wide.shtml">http://www.nyc.gov/html/dep/html/drinking_water/maplevels_wide.shtml</a>													
Flow data provided by U.S. Geological Survey <a href="http://waterdata.usgs.gov/nwis/rt">http://waterdata.usgs.gov/nwis/rt</a>													
Chloride data for the salt front calculation provided by U.S. Geological Survey and Kimberly Clark Corporation.													
Lower Basin reservoir storage data provided by Philadelphia District Corps of Engineers. See basin summaries at <a href="http://www.nap-wc.usace.army.mil/nap/">http://www.nap-wc.usace.army.mil/nap/</a>													
ALL DATA ARE PROVISIONAL													
<b>NOTES:</b>													
The Salt Front is based on the location of the 7-day average chloride concentration of 250 milligrams/liter (mg/L).													
Releases from F.E. Walter are requested from the U.S. Army Corps of Engineers and are made from the reservoir's temporary drought storage.													
Directed releases from Lake Wallenpaupack are estimated values supplied by PPL.													
Lower Basin reservoir percentages are a percent of allocated storage, not total storage. More than 19.3 billion gallons of flood control is available in Beltzville and Blue Marsh reservoirs.													
cfs=Cubic Feet per Second; DO= Dissolved Oxygen; MG= Million Gallons; BG=Billion Gallons													
1. During cold weather, ice effects on stage and discharge determinations at some stream-gaging stations are likely. Flow values reported on this report may be significantly higher or lower than actual streamflow. Revisions will be made as needed when adjusted data becomes available.													
2. The location of the salt front is estimated. The salt front river mile location will be updated as chloride data is received. DRBC does not track the salt front below river mile 54. The normal location of the salt front represents the median monthly calculated value based upon values from 1/1998 through 2/28/2013													
3. Normal flow values represent the median of monthly means for the period of record after construction completion of major reservoirs regulating their flow (NYC Reservoirs: Montague 1956-2011; FE Walter and Beltzville: Bethlehem and Trenton 1971-2011, Lehighton 1983-2011; Blue Marsh: Pottstown and Philadelphia 1980-2011).													
4. Reporting of the minimum dissolved oxygen for the Lehigh River at Glendon and the maximum temperature at the Schuylkill River at Vincent Dam has been discontinued. Reporting will begin again in June 2013.													
5. NYC Storage Median based on beginning of month values reported to the Delaware River Master from June 1967 - May 2013													
6. Drought Watch, Warning and Drought are defined by Figure 1 of Article 2 in the Delaware River Basin Water Code 18 CFR Part 410.													