

Delaware River Flow and Storage Data -June 2014 Summary



DAY	Delaware at Montague		Lehigh River			Delaware at Trenton		Schuylkill River			New York City			
	Flow (cfs)		Flow (cfs)		Min DO (mg/l)	Flow (cfs)		Flow (cfs)		Max Temp (C)	Salt Front	Delaware River Basin Storage		
	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity	
6/1/2014	3,120	3,200	938	1,970	9.6	9,780	9,330	1,890	2,510	21.6	63	269.6	99.6%	
6/2/2014	2,960	2,970	909	1,920	9.4	7,960	7,850	1,790	2,320	22.2	64	269.1	99.4%	
6/3/2014	3,400	3,320	896	1,830	9.1	7,610	7,450	1,690	2,160	23.0	65	268.5	99.1%	
6/4/2014	3,580	3,390	830	1,820	8.9	7,220	7,450	1,690	2,290	24.5	65	268.3	99.1%	
6/5/2014	3,510	4,140	934	2,440	8.8	7,660	7,890	1,820	2,100	22.9	66	268.2	99.0%	
6/6/2014	4,130	4,080	946	2,240	8.9	9,390	9,300	2,530	2,770	22.0	66	267.4	98.7%	
6/7/2014	3,170	3,230	1,010	1,880	9.1	9,010	8,780	1,820	2,500	23.0	67	266.8	98.5%	
6/8/2014	2,780	2,740	929	1,860	8.7	8,060	7,760	1,650	2,040	23.5	68	266.2	98.3%	
6/9/2014	3,020	2,840	740	2,120	8.7	7,270	7,410	1,670	2,760	23.0	69	265.6	98.1%	
6/10/2014	3,450	3,160	675	1,710	8.7	7,370	7,320	1,750	4,420	23.1	69	265.0	97.9%	
6/11/2014	3,490	3,230	647	1,630	8.6	6,610	6,840	1,820	2,490	22.1	70	264.4	97.6%	
6/12/2014	3,360	3,180	751	1,770	8.7	6,520	6,730	1,870	2,350	20.3	70	263.8	97.4%	
6/13/2014	3,710	4,070	1,370	4,390	8.8	7,270	9,790	4,740	6,400	21.1	70	263.4	97.3%	
6/14/2014	15,600	15,000	2,420	5,060	8.8	22,200	20,900	6,070	10,900	20.0	70	265.6	98.1%	
6/15/2014	12,400	11,900	2,400	4,380	9.4	27,000	26,000	4,560	6,100	20.2	70	266.7	98.5%	
6/16/2014	8,130	8,040	1,980	3,870	9.3	21,800	20,900	3,700	4,690	21.3	70	267.0	98.6%	
6/17/2014	6,350	6,160	1,170	2,950	8.9	16,400	15,700	3,010	3,910	23.4	70	266.9	98.6%	
6/18/2014	6,150	6,000	1,070	2,460	8.6	13,000	12,400	2,440	3,250	25.3	69	267.1	98.6%	
6/19/2014	5,390	5,570	928	2,240	8.5	11,700	11,300	2,290	3,390	24.2	69	267.3	98.7%	
6/20/2014	4,920	4,990	841	2,110	8.8	10,200	10,300	2,140	3,210	23.7	69	267.3	98.7%	
6/21/2014	4,320	4,120	1,020	1,970	8.9	10,000	9,640	1,910	2,620	23.9	69	267.1	98.6%	
6/22/2014	3,690	3,520	906	1,940	8.8	9,010	8,670	1,760	2,270	23.6	69	266.7	98.5%	
6/23/2014	3,360	3,380	680	1,860	8.8	7,470	7,490	1,660	2,060	24.2	69	266.1	98.2%	
6/24/2014	3,420	3,320	635	1,600	8.8	6,890	6,850	1,530	1,890	25.2	69	265.6	98.1%	
6/25/2014	3,120	3,150	651	1,620	8.5	6,430	6,550	1,450	1,750	26.3	69	265.3	98.0%	
6/26/2014	3,600	7,220	790	2,330	8.3	6,660	7,120	2,340	2,560	25.6	69	269.6	99.6%	
6/27/2014	11,600	11,500	669	1,830	8.1	7,370	8,920	2,070	2,920	25.2	69	270.4	99.9%	
6/28/2014	8,290	8,040	603	1,530	8.0	15,300	14,800	1,510	2,090	26.5	70	270.1	99.7%	
6/29/2014	6,180	6,060	577	1,430	7.9	11,800	11,500	1,390	1,670	26.7	70	269.7	99.6%	
6/30/2014	5,020	4,900	559	1,380	7.9	9,670	9,310	1,320	1,510	27.1	69	269.5	99.5%	
Observed Average		5,214	982	2,271			10,408	2,263	3,130					
Mean monthly		3,167	964	1,987			7,183	1,389	1,847		69			
% of Normal		164.6%	101.9%	114.3%			144.9%	163.0%	169.5%					
TODAY'S RESERVOIR OBSERVATIONS:	6/30/2014													
Lower Delaware Basin:	New York City 24-hr, as of 8 am:										NYC Daily Storage (BG)=		269.5	99.5%
	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	100.5%									BG Above Daily Storage Median =		12.3	4.78%
Beltzville	13.87	100.0%	Neversink	0.08	34.5	98.8%	0	0	0	0	BG Above Drought Watch =		79.5	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.44	140.6	100.4%	500	0	0	0	BG Above Drought Warning =		99.5	
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.00	94.4	98.6%	13	0	0	BG Above Drought =		119.5	
Beltzville	0	Wallenpaupack	0	Rondout	0.01	49.0	98.8%	700	0	0	BG Below One Year Ago =		0.9	

*Percent capacity in Blue Marsh reservoir is based upon the normal summer pool storage of 5.75 BG. Percent capacity for Beltzville Reservoir is based upon the year-round, normal pool storage of 13.88 BG.

DATA SOURCES:
 Storage data provided by New York City Department of Environmental Protection, Bureau of Water Supply. http://www.nyc.gov/html/dep/html/drinking_water/maplevels_wide.shtml
 Flow data provided by U.S. Geological Survey <http://waterdata.usgs.gov/nwis/rt>
 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 <http://www.nap-wc.usace.army.mil/nap/>
 ALL DATA ARE PROVISIONAL

NOTES:
 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 will be discontinued at the end of September 2014. Reporting will begin again in June 2015.
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.