

Delaware River Flow and Storage Data - July 2016 Summary



DAY	Delaware at Montague		Lehigh River			Delaware at Trenton		Schuylkill River			Salt Front	New York City	
	Flow (cfs)		Flow (cfs)		Min DO (mg/l)	Flow (cfs)		Flow (cfs)		Max Temp (C)		Delaware River Basin Storage	
	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity
7/1/2016	2,620	2,390	416	904	7.3	4,450	4,570	666	836	27.2	75	245.9	90.8%
7/2/2016	2,780	2,260	438	942	7.3	4,870	4,780	734	694	26.2	75	245.1	90.5%
7/3/2016	1,840	1,960	428	904	7.6	4,420	4,340	648	711	25.5	75	244.4	90.2%
7/4/2016	2,010	1,870	418	870	7.6	4,200	4,040	582	671	25.2	75	243.6	89.9%
7/5/2016	1,910	1,780	490	1,100	7.6	3,990	3,980	1,040	804	25.6	75	242.8	89.7%
7/6/2016	2,240	1,920	507	1,080	7.6	4,200	4,100	966	1,240	28.2	75	241.6	89.2%
7/7/2016	1,890	2,070	483	1,020	7.3	3,850	3,800	682	961	29.7	75	240.7	88.9%
7/8/2016	2,510	2,420	433	926	7.0	3,850	3,940	571	714	30.5	75	239.9	88.6%
7/9/2016	2,700	2,450	609	1,040	6.8	4,490	4,620	554	612	28.4	76	239.4	88.4%
7/10/2016	2,240	3,630	656	1,380	7.9	5,230	5,380	584	587	27.4	76	240.0	88.6%
7/11/2016	4,790	4,560	464	1,140	7.7	5,270	5,140	605	647	28.0	76	239.9	88.6%
7/12/2016	3,530	3,320	412	847	7.5	7,680	6,880	551	617	28.7	76	239.6	88.5%
7/13/2016	2,950	2,760	424	821	7.6	6,190	6,380	518	758	27.5	74	238.7	88.1%
7/14/2016	2,640	2,510	461	876	7.4	5,310	5,350	743	881	28.9	74	237.8	87.8%
7/15/2016	2,720	2,680	435	1,030	7.5	4,680	4,790	620	718	29.3	74	237.0	87.5%
7/16/2016	2,910	2,570	388	845	7.3	4,720	4,700	538	577	29.9	73	235.8	87.1%
7/17/2016	2,850	2,470	386	792	7.2	4,450	4,530	457	529	30.7	73	235.0	86.8%
7/18/2016	2,930	2,790	371	1,000	7.3	4,270	4,220	428	504	30.8	73	234.1	86.4%
7/19/2016	2,810	2,570	367	986	7.2	4,310	4,520	490	490	29.6	73	233.2	86.1%
7/20/2016	2,640	2,220	366	827	7.2	4,640	4,700	592	485	29.1	73	232.5	85.8%
7/21/2016	2,220	2,060	358	769	7.1	4,200	4,110	490	541	29.4	73	231.7	85.5%
7/22/2016	2,120	2,070	354	744	6.9	3,850	3,720	434	479	30.5	73	230.8	85.2%
7/23/2016	2,570	2,190	496	720	6.7	3,580	3,440	415	482	31.6	73	230.0	84.9%
7/24/2016	1,940	1,970	546	908	6.9	3,380	3,340	398	456	31.4	73	229.0	84.6%
7/25/2016	1,890	1,990	437	1,370	7.0	4,020	3,930	527	1,400	31.1	73	228.0	84.2%
7/26/2016	2,340	2,390	399	1,430	7.4	4,600	5,310	534	1,800	30.2	73	227.4	84.0%
7/27/2016	2,660	2,570	351	897	7.4	4,600	4,610	749	726	30.6	73	226.5	83.6%
7/28/2016	2,190	2,210	334	801	7.2	4,200	4,280	561	817	29.4	73	225.5	83.3%
7/29/2016	2,010	1,900	340	913	7.6	4,490	4,490	1,210	1,040	28.4	73	224.7	83.0%
7/30/2016	1,920	1,970	517	1,170	7.5	4,600	4,760	1,300	1,430	27.8	73	223.8	82.6%
7/31/2016	3,420	3,120	638	1,860	7.8	6,550	8,930	2,450	2,850	27.1	73	223.5	82.5%

Observed Average	2,440	443	997			4,699	698	841			70		
Mean Monthly	2,442	663	1,434			5,451	1,066	1,342					
% of Normal	99.9%	66.7%	69.6%			86.2%	65.5%	62.6%					

TODAY'S RESERVOIR OBSERVATIONS: 7/31/2016														
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=					223.5	82.5%
	Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=				232.4	85.8%
Blue Marsh	5.94	103.0%							BG Below Daily Storage Median =				8.9	-3.85%
Beltzville	13.57	100.6%		Neversink 0.09	28.7	82.2%	0	0	BG Above Drought Watch =				59.6	
Directed Releases from Basin Reservoirs (cfs):				Pepacton 0.05	121.7	86.9%	449	0	BG Above Drought Warning =				79.6	
Blue Marsh	0	Merrill Creek 0		Cannonsville 0.13	73.1	76.4%	0	0	BG Above Drought =				99.6	
Beltzville	0	Wallenpaupack 0		Rondout 0.09	47.9	96.4%	610	0	BG Below One Year Ago =				16.3	

*Percent capacity in Blue Marsh Reservoir is based upon the normal SUMMER POOL storage of 5.76 BG. Percent capacity for Beltzville Reservoir is based upon the year-round, normal pool storage of 13.49 BG. Directed Release from NYC Reservoirs is the amount of water needed to meet the Montague Flow Objective.

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 the estimated 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
- 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.
 - 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.
 - 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).
 - Minimum dissolved oxygen for the Lehigh River at Glendon and the maximum temperature at the Schuylkill River at Vincent Dam will be reported for the period June through September.
 - NYC Storage Median based on beginning of month values reported to the Delaware River Master from June 1967 - May 2013.
 - Drought Watch, Warning and Drought are defined by Figure 1 of Article 2 in the Delaware River Basin Water Code 18 CFR Part 410.