

Delaware River Flow and Storage Data - August 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
8/1/2016	5,490	5,050	535	1,680	8.0	7,240	7,970	1,310	1,880	26.4	73	223.0	82.3%
8/2/2016	3,830	3,960	653	1,520	8.1	8,430	8,740	1,180	1,280	26.3	73	222.9	82.3%
8/3/2016	3,810	3,710	529	1,350	8.4	8,790	8,340	1,520	1,240	26.6	73	222.7	82.2%
8/4/2016	3,250	3,230	477	1,150	8.3	7,240	7,040	956	1,270	27.3	72	222.2	82.0%
8/5/2016	2,890	2,800	473	1,030	8.2	6,280	6,190	682	919	27.2	72	221.6	81.8%
8/6/2016	3,120	2,760	636	1,170	8.1	5,470	5,490	614	747	28.2	72	220.8	81.5%
8/7/2016	2,390	2,270	650	1,210	7.7	5,030	5,390	683	923	28.3	72	220.2	81.3%
8/8/2016	2,220	2,160	454	1,140	7.7	5,270	5,050	568	820	27.0	72	219.5	81.0%
8/9/2016	2,190	2,130	361	829	7.3	4,720	4,460	526	669	27.3	72	218.7	80.8%
8/10/2016	2,030	2,060	364	827	7.3	4,060	3,990	503	622	28.7	72	217.9	80.5%
8/11/2016	2,530	2,790	387	858	7.5	3,920	3,970	485	624	30.7	72	217.4	80.3%
8/12/2016	3,970	3,910	753	1,330	7.5	5,110	4,950	570	610	31.8	72	216.5	79.9%
8/13/2016	4,260	4,070	828	1,570	7.6	6,680	6,890	634	723	32.2	72	216.7	80.0%
8/14/2016	4,610	5,040	828	1,600	7.6	7,240	7,380	643	753	31.6	72	217.2	80.2%
8/15/2016	4,980	5,190	560	1,400	7.7	7,100	7,520	694	764	31.2	72	217.2	80.2%
8/16/2016	4,610	4,920	487	971	7.5	8,430	8,050	572	791	30.5	72	216.8	80.0%
8/17/2016	3,970	4,120	492	929	7.3	7,870	7,560	552	788	30.6	72	216.3	79.9%
8/18/2016	3,860	3,570	482	993	7.5	6,960	6,820	577	671	30.1	72	215.8	79.7%
8/19/2016	3,630	3,200	467	907	7.4	6,280	6,230	575	752	30.2	72	215.0	79.4%
8/20/2016	3,440	2,990	646	868	7.3	5,510	5,530	514	709	30.0	72	213.9	79.0%
8/21/2016	3,050	2,910	743	1,340	7.5	5,110	5,150	477	783	29.0	72	213.2	78.7%
8/22/2016	3,050	2,850	695	1,750	7.8	5,350	5,600	1,620	1,080	27.3	72	212.9	78.6%
8/23/2016	4,000	3,570	510	1,160	8.2	6,190	5,930	1,400	1,520	26.0	72	212.1	78.3%
8/24/2016	3,050	2,790	465	971	8.2	5,190	5,480	813	1,180	26.6	72	211.2	78.0%
8/25/2016	2,870	2,620	439	871	8.0	5,430	5,340	671	853	26.4	72	210.2	77.6%
8/26/2016	2,830	2,600	432	836	7.4	4,640	4,590	572	722	28.8	72	209.3	77.3%
8/27/2016	2,810	2,580	1,030	911	7.1	4,450	4,380	516	644	28.9	72	208.4	76.9%
8/28/2016	2,780	2,530	711	1,370	7.7	4,380	4,470	455	577	29.0	72	207.6	76.7%
8/29/2016	2,680	2,490	420	1,080	7.6	5,110	4,800	444	525	29.1	72	206.9	76.4%
8/30/2016	2,620	2,480	362	727	7.1	4,720	4,400	432	500	29.0	73	206.2	76.1%
8/31/2016	2,620	2,350	343	692	7.0	4,090	4,010	415	489	28.2	73	205.5	75.9%

Observed Average	3,216	555	1,130			5,862	715	853			74		
Mean Monthly	2,168	493	1,116			4,442	749	1,085					
% of Normal	148.3%	112.6%	101.3%			132.0%	95.5%	78.6%					

TODAY'S RESERVOIR OBSERVATIONS: 8/31/2016

*Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=		205.5	75.9%
Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=	204.4	75.5%	
Blue Marsh	5.81	100.8%						BG Above Daily Storage Median =	1.1	0.55%	
Beltzville	13.49	100.0%	Neversink	0.09	27.0	77.3%	3	0	BG Above Drought Watch =	68.5	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	112.4	80.2%	6	0	BG Above Drought Warning =	88.5	
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.00	66.1	69.1%	333	260	BG Above Drought =	108.5
Beltzville	0	Wallenpaupack	0	Rondout	0.11	46.4	93.5%	767	0	BG Below One Year Ago =	8.4

\*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](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
  - 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. 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.
  - 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.