

Delaware River Flow and Storage Data - November 2016



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
11/1/2016	2,510	2,460	445	744		3,920	3,990	465	568		87	136.3	50.3%
11/2/2016	2,260	2,140	438	771		3,950	3,960	433	462		88	135.5	50.0%
11/3/2016	1,640	1,620	391	773		3,850	3,800	425	400		88	134.7	49.8%
11/4/2016	1,420	1,400	338	717		3,610	3,550	429	360		88	133.8	49.4%
11/5/2016	1,330	1,500	288	718		3,130	3,070	455	357		88	132.7	49.0%
11/6/2016	1,910	1,880	277	690		2,720	2,680	492	364		88	131.5	48.6%
11/7/2016	1,840	1,860	275	680		2,460	2,550	477	373		88	130.3	48.1%
11/8/2016	1,910	1,950	274	763		2,920	2,910	508	375		88	128.7	47.5%
11/9/2016	2,040	2,070	235	727		2,980	3,030	513	445		88	127.3	47.0%
11/10/2016	2,130	2,170	222	567		3,130	3,140	544	516		88	125.9	46.5%
11/11/2016	2,210	2,200	210	533		3,100	3,090	490	482		88	124.4	45.9%
11/12/2016	2,150	2,140	191	500		3,070	3,090	453	422		88	122.7	45.3%
11/13/2016	2,100	2,130	190	466		3,130	3,100	436	396		88	121.1	44.7%
11/14/2016	2,190	2,180	187	462		3,010	2,980	420	398		88	119.5	44.1%
11/15/2016	2,170	2,260	186	458		3,010	2,980	422	394		88	118.0	43.6%
11/16/2016	2,260	2,240	186	460		3,010	3,020	423	394		88	116.7	43.1%
11/17/2016	2,340	2,360	185	453		3,130	3,170	412	395		88	115.4	42.6%
11/18/2016	2,370	2,340	185	450		3,190	3,190	401	391		89	114.2	42.2%
11/19/2016	2,210	2,130	189	444		3,290	3,310	404	383		89	113.1	41.8%
11/20/2016	1,870	1,850	210	476		3,290	3,250	406	390		89	112.2	41.4%
11/21/2016	1,790	1,800	206	493		3,160	3,070	406	382		89	111.2	41.0%
11/22/2016	1,800	1,810	227	471		2,770	2,750	413	378		89	110.1	40.6%
11/23/2016	1,870	1,860	253	501		2,600	2,630	407	389		89	109.1	40.3%
11/24/2016	1,660	1,660	238	550		2,630	2,670	391	388		89	108.5	40.1%
11/25/2016	1,610	1,610	217	558		2,770	2,780	390	384		89	107.8	39.8%
11/26/2016	1,590	1,630	214	622		2,660	2,630	389	388		89	107.1	39.5%
11/27/2016	1,920	1,970	211	621		2,570	2,590	394	382		89	106.5	39.3%
11/28/2016	2,190	2,200	225	507		2,550	2,600	383	392		89	106.4	39.3%
11/29/2016	2,010	2,020	281	892		2,830	3,160	754	755		90	106.7	39.4%
11/30/2016	1,870	2,200	656	1,470		4,830	5,080	1,310	2,130		90	107.9	39.8%

Observed Average	1,988	261	618			3,127	475	474		70		
Mean Monthly	4,555	1,293	2,375			10,038	1,707	2,363				
% of Normal	43.6%	20.2%	26.0%			31.2%	27.8%	20.1%				

TODAY'S RESERVOIR OBSERVATIONS: 11/30/2016												
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=				
Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=				
Blue Marsh	4.27	96.4%	(inches)	(BG)	(%)	(MG)	(MG)	197.8	89.9			73.0%
Beltzville	8.77	65.0%	Neversink	1.04	19.7	56.4%	194	0				
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.65	69.8	49.8%	101	0				
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.63	18.4	19.3%	0	0			
Beltzville	0	Wallenpaupack	0	Rondout	1.30	46.2	93.1%	460	0			

*Percent capacity in Blue Marsh Reservoir is based upon the normal WINTER POOL storage of 4.43 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.