

Delaware River Flow and Storage Data -October 2018



DAY	Delaware at Montague		Lehigh River		Delaware at Trenton		Schuylkill River		Salt Front River Mile	New York City Delaware River Basin Storage	
	Flow (cfs)		Flow (cfs)		Flow (cfs)		Flow (cfs)			(BG)*	Capacity
	8:00 AM	Mean	Lehighton	Bethlehem	8:00 AM	Mean	Pottstown	Philadelphia			
10/1/2018	14,800	14,700	3,300	6,500	33,700	32,300	4,420	6,380	59	258.0	96.5%
10/2/2018	11,600	12,000	2,590	5,590	28,100	27,200	3,850	5,450	<54	258.8	96.8%
10/3/2018	22,000	21,300	5,550	7,190	25,500	28,700	3,980	5,640	<54	261.4	97.7%
10/4/2018	19,000	18,200	5,160	7,640	40,000	39,100	3,450	5,220	<54	262.7	98.2%
10/5/2018	16,700	16,200	5,380	6,770	33,400	32,300	3,020	4,440	<54	263.7	98.6%
10/6/2018	14,000	13,500	4,310	6,460	30,600	29,900	2,740	4,170	<54	264.2	98.8%
10/7/2018	12,000	11,700	3,580	5,510	25,600	25,100	2,590	3,940	<54	264.2	98.8%
10/8/2018	9,920	9,770	2,300	4,480	22,800	22,100	2,660	3,700	<54	264.0	98.7%
10/9/2018	8,940	8,910	2,160	3,920	19,000	18,700	3,130	4,250	<54	263.6	98.6%
10/10/2018	7,810	8,150	1,960	3,730	17,400	17,300	2,970	4,120	<54	263.0	98.3%
10/11/2018	7,150	9,530	3,590	5,170	16,000	16,900	3,460	4,060	<54	262.7	98.2%
10/12/2018	21,500	20,700	6,190	9,400	30,300	33,700	6,030	7,630	<54	263.6	98.6%
10/13/2018	16,300	15,700	5,850	8,450	40,300	38,600	4,910	6,910	<54	263.7	98.6%
10/14/2018	13,600	13,300	4,620	7,420	32,800	31,600	4,120	5,720	<54	263.7	98.6%
10/15/2018	11,700	11,400	3,410	6,000	28,000	26,700	3,530	4,920	<54	263.5	98.5%
10/16/2018	10,700	10,800	2,780	5,130	23,900	23,200	3,290	4,590	<54	263.5	98.5%
10/17/2018	10,400	10,100	2,620	4,810	21,200	21,100	3,000	4,190	<54	263.2	98.4%
10/18/2018	9,280	9,100	2,130	3,990	19,900	19,300	2,790	3,800	<54	262.9	98.3%
10/19/2018	7,650	8,050	1,810	3,450	17,800	17,300	2,600	3,610	59	262.4	98.1%
10/20/2018	7,060	7,400	1,690	3,240	15,700	15,700	2,470	3,450	62	261.7	97.8%
10/21/2018	6,870	7,120	1,710	3,180	14,700	14,700	2,430	3,450	64	261.0	97.6%
10/22/2018	6,810	7,060	1,680	3,010	14,200	14,100	2,310	3,330	66	260.3	97.3%
10/23/2018	6,220	6,550	1,650	3,100	13,700	13,700	2,180	3,150	67	259.3	97.0%
10/24/2018	5,960	6,240	1,380	2,670	13,100	13,000	2,100	3,000	68	258.3	96.6%
10/25/2018	5,880	6,190	1,290	2,380	12,200	12,100	2,020	2,930	68	257.0	96.1%
10/26/2018	5,600	5,870	1,230	2,270	11,800	11,800	1,940	2,850	68	255.7	95.6%
10/27/2018	5,930	6,250	1,340	2,630	12,100	12,900	2,310	4,260	69	254.5	95.2%
10/28/2018	10,200	10,900	1,710	2,930	14,200	14,500	2,430	4,570	69	254.6	95.2%
10/29/2018	11,300	11,400	2,090	3,330	17,200	18,100	2,190	3,670	69	254.5	95.2%
10/30/2018	11,600	11,600	1,960	3,250	18,800	18,800	2,050	3,260	69	254.1	95.0%
10/31/2018	10,700	10,700	1,740	2,990	18,500	18,300	1,890	3,050	69	253.6	94.8%

Observed Average	10,980	2,863	4,729	21,897	2,995	4,313	72	
Mean Monthly	2,654	971	1,795	6,020	995	1,383		
% of Normal	413.7%	295.0%	263.4%	363.7%	301.0%	312.0%		

TODAY'S RESERVOIR OBSERVATIONS: 10/31/2018

Lower Delaware Basin**:		New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=	253.6	94.8%		
Blue Marsh	Beltzville	Vol. (BG)	Capacity	7-Day Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Release (MG)	NYC Daily Storage Median (BG)=	170.4	63.7%
		4.31	97.2%						BG Above Daily Storage Median =	83.2	48.81%
		13.50	100.1%						BG Above Drought Watch =	143.6	
Directed Releases from Basin Reservoirs (cfs):		Neversink	1.26	34.8	100.3%	0	0	0	BG Above Drought Warning =	163.6	
Blue Marsh	Merrill Creek	0	0	Pepacton	1.12	134.4	96.4%	497	0	BG Above Drought =	183.6
Beltzville	Wallenpaupack	0	0	Cannonsville	1.30	84.4	90.4%	279	0	BG Above One Year Ago =	66.9

\* As of June 1, 2018, the NYC Delaware reservoir statistics have been changed to reflect the 2016 USGS bathymetry tables.  
 \*\*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](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=Billions 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.