

Delaware River Flow and Storage Data -December 2017



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			
12/1/2017	1,920	1,950	431	1,090	4,270	4,250	892	1,100	73	193.2	71.3%
12/2/2017	1,910	1,940	407	1,040	4,060	4,060	877	1,070	73	193.0	71.3%
12/3/2017	1,920	1,930	403	993	3,920	3,930	845	1,060	73	192.8	71.2%
12/4/2017	1,850	1,850	402	984	3,850	3,850	827	1,030	73	192.5	71.1%
12/5/2017	1,800	1,800	404	995	3,810	3,830	819	1,020	73	192.2	70.9%
12/6/2017	1,800	1,830	434	1,060	3,750	3,760	873	1,090	73	192.1	70.9%
12/7/2017	1,970	2,010	482	1,070	3,780	3,830	876	1,130	73	192.2	71.0%
12/8/2017	2,170	2,130	492	1,070	3,850	3,880	831	1,080	73	192.1	70.9%
12/9/2017	1,970	2,010	494	1,090	3,990	4,050	800	1,040	74	192.0	70.9%
12/10/2017	1,910	1,960	393	1,040	4,200	4,160	799	1,050	74	191.9	70.9%
12/11/2017	1,850	1,860	385	966	4,060	4,070	784	1,030	74	191.8	70.8%
12/12/2017	1,800	1,820	406	947	3,920	3,880	770	1,020	74	191.6	70.7%
12/13/2017	1,740	1,740	423	984	3,780	3,780	743	982	74	191.4	70.7%
12/14/2017	1,870	1,990	351	945	3,780	3,800	724	983	74	191.0	70.5%
12/15/2017	2,370	2,160	Ice	811	3,680	3,620	674	927	75	190.2	70.2%
12/16/2017	1,750	1,720	Ice	809	3,220	3,320	638	875	74	189.4	69.9%
12/17/2017	2,010	2,080	Ice	930	3,040	3,050	679	921	74	189.0	69.8%
12/18/2017	2,170	2,170	346	933	3,130	3,110	731	947	74	188.6	69.6%
12/19/2017	2,210	2,220	415	939	3,510	3,590	712	960	74	188.1	69.5%
12/20/2017	2,340	2,310	434	1,020	3,850	3,900	695	960	74	187.8	69.3%
12/21/2017	2,080	2,100	470	1,010	4,060	4,110	667	921	75	187.5	69.2%
12/22/2017	2,010	1,990	460	999	4,130	4,090	662	893	75	187.3	69.2%
12/23/2017	1,920	1,980	418	1,180	3,880	4,040	903	1,080	75	187.0	69.1%
12/24/2017	2,490	3,120	497	1,360	5,150	5,110	1,240	2,610	75	187.4	69.2%
12/25/2017	4,390	4,190	504	1,290	5,470	5,600	1,220	2,240	75	187.8	69.3%
12/26/2017	Ice	3,410	803	1,350	7,050	7,030	1,020	1,950	75	188.1	69.5%
12/27/2017	Ice	2,970	Ice	Ice	6,410	6,390	904	1,430	75	187.5	69.2%
12/28/2017	Ice	2,810	Ice	Ice	Ice	5,230	Ice	1,100	75	186.7	68.9%
12/29/2017	Ice	2,700	Ice	Ice	Ice	Ice	Ice	931	76	186.0	68.7%
12/30/2017	Ice	Ice	Ice	Ice	Ice	Ice	Ice	942	76	185.5	68.5%
12/31/2017	Ice	Ice	Ice	Ice	Ice	Ice	Ice	887	76	185.0	68.3%

Observed Average	2,233	446	1,035	4,190	822	1,137	69	
Mean Monthly	5,050	1,878	3,228	12,925	2,427	3,612		
% of Normal	44.2%	23.7%	32.1%	32.4%	33.9%	31.5%		

TODAY'S RESERVOIR OBSERVATIONS: 12/31/2017										
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	
Vol. (BG)	Capacity		7-Day Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	185.0	68.3%
Blue Marsh	4.47	100.8%	(inches)	(BG)	(%)	(MG)	(MG)	BG Below Daily Storage Median =	224.7	83.0%
Beltzville	13.52	100.2%	Neversink	0.06	29.4	84.3%	407	0	BG Above Drought Watch =	59.1
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.05	108.0	77.1%	451	0	BG Above Drought Warning =	79.1
Blue Marsh	0	Merrill Creek	Cannonsville	0.03	47.5	49.7%	0	0	BG Above Drought =	99.1
Beltzville	0	Wallenpaupack	Rondout	0.00	47.4	95.5%	693	0	BG Above One Year Ago =	49.4

\*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= 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.