

Delaware River Flow and Storage Data- January 2019



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			
1/1/2019	14,300	16,100	3,720	9,010	36,200	35,800	8,640	15,500	<54	264.1	98.7%
1/2/2019	16,900	16,400	3,640	7,590	36,300	36,200	7,020	10,600	<54	264.2	98.8%
1/3/2019	14,000	13,800	4,110	7,980	33,700	33,400	6,040	8,580	<54	263.9	98.7%
1/4/2019	12,400	12,800	2,570	5,910	29,800	29,100	5,090	7,470	<54	263.8	98.6%
1/5/2019	11,500	13,400	2,770	6,130	26,000	29,800	4,870	7,540	<54	263.4	98.5%
1/6/2019	16,800	16,500	2,700	5,970	35,000	35,700	4,700	8,000	<54	263.5	98.5%
1/7/2019	13,800	14,000	2,550	5,290	33,700	32,800	3,970	6,240	<54	263.1	98.4%
1/8/2019	12,100	12,400	2,530	5,270	28,400	28,400	3,620	5,600	<54	262.4	98.1%
1/9/2019	12,000	12,500	2,210	4,960	26,500	26,500	3,680	5,950	<54	262.2	98.0%
1/10/2019	13,500	13,200	2,100	4,510	24,900	25,200	3,420	5,470	<54	262.0	97.9%
1/11/2019	11,200	11,300	1,860	4,080	24,500	24,100	3,030	4,780	<54	261.4	97.7%
1/12/2019	10,300	9,540	1,570	3,540	21,200	20,900	2,720	4,280	59	260.6	97.4%
1/13/2019	8,270	8,840	1,540	3,450	18,600	18,400	2,640	4,050	62	259.6	97.1%
1/14/2019	8,430	8,700	1,450	3,300	17,500	17,400	2,570	3,980	65	258.5	96.6%
1/15/2019	8,840	8,250	1,280	2,910	16,000	16,200	2,500	3,830	67	257.2	96.2%
1/16/2019	7,030	7,360	1,290	2,860	15,800	15,400	2,400	3,680	68	256.2	95.8%
1/17/2019	6,340	6,820	1,250	2,780	14,600	14,700	2,240	3,510	68	255.2	95.4%
1/18/2019	6,370	6,590	1,190	2,680	13,900	13,900	2,170	3,380	69	254.1	95.0%
1/19/2019	5,880	6,080	1,120	2,580	13,400	13,400	2,140	3,340	69	253.1	94.6%
1/20/2019	6,810	6,890	1,470	4,570	19,800	19,700	5,840	12,500	70	252.4	94.4%
1/21/2019	6,510	7,130	1,410	4,180	21,300	19,800	5,650	10,100	70	251.6	94.1%
1/22/2019	10,200	8,010	1,290	3,370	17,500	15,800	4,060	6,270	69	250.5	93.7%
1/23/2019	9,110	9,250	1,310	3,240	16,100	14,600	4,150	5,670	69	249.3	93.2%
1/24/2019	9,040	12,100	4,750	13,000	15,400	25,300	7,830	13,700	70	249.3	93.2%
1/25/2019	39,500	34,500	4,470	14,800	65,300	63,600	12,200	21,500	69	258.5	96.7%
1/26/2019	23,700	22,400	5,410	9,910	64,000	58,800	7,710	11,900	68	262.4	98.1%
1/27/2019	17,000	16,800	5,370	9,090	43,000	41,300	6,030	8,760	67	263.8	98.6%
1/28/2019	14,100	13,900	4,500	7,980	34,800	34,000	5,160	7,470	65	264.2	98.8%
1/29/2019	12,300	12,400	3,150	6,250	29,300	28,600	4,200	6,480	64	263.9	98.7%
1/30/2019	13,100	12,500	2,130	4,680	25,400	24,400	3,720	5,790	61	263.7	98.6%
1/31/2019	12,300	11,500	1,760	3,960	22,900	21,600	Ice	4,860	<54	262.9	98.3%

Observed Average	12,321	2,531	5,672		26,929	4,667	7,445	69		
Mean Monthly	5,078	1,271	2,779		14,005	1,829	2,744			
% of Normal	242.6%	199.2%	204.1%		192.3%	255.2%	271.3%			

TODAY'S RESERVOIR OBSERVATIONS: 1/31/2019

Lower Delaware Basin**:		New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	262.9	98.3%	
Blue Marsh	Beltzville	Vol. (BG)	Capacity	7-Day Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Release (MG)	NYC Daily Storage Median (BG)=	224.4	83.9%
		4.40	99.3%						BG Above Daily Storage Median =	38.5	17.16%
		13.47	99.8%						BG Above Drought Watch =	120.6	
Directed Releases from Basin Reservoirs (cfs):		Neversink		0.76	34.8	100.2%	0	0	BG Above Drought Warning =	140.6	
Blue Marsh	Merrill Creek	0	0	Pepacton	0.36	139.3	100.0%	448	0	BG Above Drought =	160.6
Beltzville	Wallenpaupack	0	0	Cannonsville	0.36	88.9	95.1%	0	0	BG Above One Year Ago =	43.6

\* 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=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.