

Delaware River Flow and Storage Data - April 2017



DAY	Delaware at Montague		Lehigh River		Delaware at Trenton		Schuylkill River		Salt Front	New York City	
	Flow (cfs)		Flow (cfs)		Flow (cfs)		Flow (cfs)			River Mile	Delaware River Basin Storage
	8:00 AM	Mean	Lehighton	Bethlehem	8:00 AM	Mean	Pottstown	Philadelphia	(BG)		Capacity
4/1/2017	33,300	31,500	2,910	9,580	54,300	54,200	9,700	18,800	74	253.8	93.7%
4/2/2017	26,500	25,500	4,290	7,330	54,500	51,100	7,410	10,600	73	257.5	95.1%
4/3/2017	21,100	20,800	4,570	7,220	43,000	41,200	5,510	7,510	72	260.1	96.0%
4/4/2017	19,300	21,000	5,110	8,350	37,400	38,100	5,090	6,500	71	262.7	97.0%
4/5/2017	26,600	25,800	5,170	8,200	40,300	41,900	4,810	6,440	70	267.7	98.9%
4/6/2017	22,500	22,700	4,250	8,470	42,400	44,100	5,030	7,110	68	271.0	100.0%
4/7/2017	41,500	40,200	6,370	12,500	54,800	56,800	10,500	14,800	66	276.1	102.0%
4/8/2017	35,500	34,000	5,820	10,100	68,400	65,700	9,160	12,200	64	278.3	102.8%
4/9/2017	26,500	25,800	3,790	7,410	53,100	50,900	6,260	8,350	61	278.0	102.6%
4/10/2017	21,200	20,900	3,310	6,380	40,500	39,700	5,020	6,360	59	277.0	102.3%
4/11/2017	18,100	17,800	2,820	5,410	33,900	33,200	4,090	5,100	57	275.8	101.8%
4/12/2017	16,300	15,900	2,490	4,670	29,100	28,700	3,440	4,300	54	274.5	101.3%
4/13/2017	14,400	14,100	2,130	3,930	26,000	25,300	2,930	3,710	<54	273.4	101.0%
4/14/2017	12,000	11,500	1,770	3,500	22,800	22,300	2,550	3,170	<54	272.7	100.7%
4/15/2017	9,350	9,190	1,370	2,930	19,900	19,100	2,340	2,910	<54	271.8	100.3%
4/16/2017	7,880	8,040	1,320	2,740	16,400	16,200	2,210	2,740	<54	271.0	100.1%
4/17/2017	7,340	7,670	1,300	2,690	14,700	14,700	2,160	2,620	<54	270.7	99.9%
4/18/2017	6,870	6,860	1,040	2,350	13,900	13,800	2,110	2,560	<54	270.5	99.9%
4/19/2017	6,810	6,850	1,010	2,150	13,100	12,500	1,890	2,370	<54	269.7	99.6%
4/20/2017	6,810	7,120	1,280	2,310	12,200	11,900	1,690	2,130	<54	269.2	99.4%
4/21/2017	8,130	10,100	1,620	2,680	12,200	12,500	1,790	2,230	58	269.9	99.6%
4/22/2017	16,100	15,700	1,810	2,980	14,700	16,600	1,860	2,400	60	271.6	100.3%
4/23/2017	12,500	12,500	1,670	2,710	22,100	21,400	1,660	2,230	62	272.3	100.5%
4/24/2017	10,500	10,900	1,610	2,590	18,100	17,900	1,550	1,990	63	272.3	100.5%
4/25/2017	10,600	10,400	1,630	2,580	15,800	16,100	1,580	1,970	64	272.2	100.5%
4/26/2017	9,920	9,840	1,780	2,820	16,100	16,000	1,670	2,440	65	271.9	100.4%
4/27/2017	9,180	9,250	1,330	2,350	15,800	15,600	1,520	2,190	65	271.3	100.2%
4/28/2017	8,600	8,610	1,140	2,010	14,300	14,200	1,380	1,890	65	270.7	100.0%
4/29/2017	6,870	7,190	1,040	1,860	13,900	14,400	1,890	2,340	65	270.2	99.8%
4/30/2017	6,100	6,230	983	1,770	12,900	12,500	1,440	2,760	65	269.7	99.6%

Observed Average	15,798	2,558	4,752		27,953	3,674.7	5,091	67		
Mean Monthly	10,660	1,753	3,648		20,140	2,647.5	3,968			
% of Normal	148.2%	145.9%	130.3%		138.8%	138.8%	128.3%			

TODAY'S RESERVOIR OBSERVATIONS: 4/30/2017										
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=		
	Vol. (BG)	Capacity	7-Day Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=		
Blue Marsh	5.83	101.1%						270.8	269.7	100.0%
Beltzville	13.55	100.4%	0.24	34.6	99.1%	203	0		1.1	-0.39%
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.22	139.5	99.5%	450	0		
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.07	95.5	99.8%	0	0	
Beltzville	0	Wallenpaupack	0	Rondout	0.24	48.8	98.4%	694	0	
										BG Above Drought = 80.2
										BG Above Drought Warning = 96.2
										BG Above Drought = 120.2
										BG Above One Year Ago = 4.0

*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
 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.