Delaware River Flow and Storage Data - January 2017

Delaware River Basin Commission
DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA

	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	
DAY	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity
1/1/2017	3,200	3,150	536	1,060		6,280	6,290	915	1,280		75	136.3	50.3%
1/2/2017	2,930	2,910	537	1,060		5,930	5,880	926	1,240		75	136.6	50.4%
1/3/2017	2,780	2,790	569	1,260		5,760	5,870	1,240	1,580		75	137.0	50.6%
1/4/2017	3,140	4,040	789	2,020		7,290	7,310	2,030	3,780		75	138.0	51.0%
1/5/2017	7,300	7,020	993	2,040		8,020	8,160	2,120	3,120		74	139.6	51.5%
1/6/2017	6,100	5,870	1,000	1,990		10,900	11,100	1,830	2,620		74	140.7	51.9%
1/7/2017	4,980	4,550	782	1,710		10,800	10,400	1,510	2,210		74	141.4	52.2%
1/8/2017	4,310	4,160	Ice	Ice		8,710	8,150	1,280	1,780		74	142.0	52.4%
1/9/2017	3,950	3,820	Ice	Ice		6,150	6,210	1,100	1,360		74	142.3	52.6%
1/10/2017	3,440	3,540	Ice	Ice		5,210	5,360	1,070	1,240		74	143.0	52.8%
1/11/2017	3,230	3,360	Ice	1,250		5,040	5,620	1,140	1,670		74	143.8	53.1%
1/12/2017	4,070	4,030	Ice	1,710		6,830	7,260	1,700	2,830		74	144.5	53.4%
1/13/2017	5,050	7,340	1,290	2,010		8,330	8,350	1,710	3,140		74	148.5	54.8%
1/14/2017	11,900	10,900	1,410	2,280		9,380	10,400	1,360	2,370		74	151.9	56.1%
1/15/2017	8,630	7,890	956	1,770		15,700	14,800	1,210	1,890		74	154.1	56.9%
1/16/2017	6,750	6,170	932	1,540		12,100	11,400	1,140	1,710		74	155.8	57.5%
1/17/2017	5,270	5,170	924	1,620		9,820	9,830	1,140	1,590		74	157.0	58.0%
1/18/2017	4,950	5,500	931	1,790		9,990	9,810	1,590	2,180		74	158.8	58.6%
1/19/2017	6,220	6,250	952	1,750		9,550	9,660	1,550	2,510		73	160.6	59.3%
1/20/2017	6,020	6,090	987	1,770		10,400	10,400	1,340	2,120		73	162.2	59.9%
1/21/2017	5,490	5,480	1,050	2,020		10,800	10,700	1,510	2,220		74	163.8	60.5%
1/22/2017	5,210	5,320	1,040	1,970		10,700	10,400	1,510	2,320		74	165.4	61.1%
1/23/2017	5,490	5,650	1,140	2,100		9,770	10,200	1,660	2,380		74	167.0	61.7%
1/24/2017	6,750	9,340	1,710	3,660		17,700	17,400	3,160	6,310		74	168.8	62.3%
1/25/2017	13,100	12,500	1,570	3,530		17,300	19,200	3,210	5,050		74	170.4	62.9%
1/26/2017	9,490	9,670	1,380	3,010		21,300	20,500	2,880	3,930		74	171.9	63.5%
1/27/2017	9,010	9,250	1,440	2,830		16,900	16,900	2,450	3,380		74	173.5	64.0%
1/28/2017	7,880	8,050	1,390	2,590		15,600	15,700	1,890	2,840		74	175.0	64.6%
1/29/2017	6,540	6,780	1,340	2,410		14,300	14,100	1,680	2,360		74	176.4	65.1%
1/30/2017	5,650	6,150	1,220	2,230		12,500	12,500	1,530	2,130		73	177.6	65.6%
1/31/2017	6,080	5,630	1,010	1,880		11,300	11,200	1,450	1,950		73	178.4	65.9%
Observed Average		6,076	1,072	2,031			10,679	1,640	2,487		69		
Mean Monthly		5,078	1,271	2,779			14,005	1,829	2,744				
% of Normal		119.7%	84.4%	73.1%			76.3%	89.7%	90.6%				

TODAY'S RESERVOIR OBSERVATIONS: 1/31/2017

*Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	178.4	65.9%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	227.8	84.1%
Blue Marsh	4.48	100.9%		(inches)	(BG)	(%)	(MG)	(MG)	BG Below Daily Storage Median =	49.4	-21.68%
Beltzville	11.80	87.5%	Neversink	0.23	26.5	75.8%	0	0	BG Above Drought Watch =	36.1	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.14	98.6	70.3%	0	0	BG Above Drought Warning =	52.1	
Blue Marsh 0	Merrill Creek	0	Cannonsville	0.09	53.4	55.8%	0	0	BG Above Drought =	76.1	
Beltzville 0	Wallenpaupack	0	Rondout	0.17	47.2	95.2%	207	0	BG Below One Year Ago =	47.7	

*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 calcuation 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.