Delaware River Flow and Storage Data - October 2016

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
10/1/2016	2,040	1,950	431	1,530		5,070	4,900	2,140	2,810		85	172.0	63.5%
10/2/2016	2,390	2,150	360	1,150		4,720	4,530	1,460	1,760		85	171.1	63.2%
10/3/2016	2,210	2,170	386	1,060		3,850	3,800	1,340	1,230		85	170.1	62.8%
10/4/2016	2,430	2,450	369	980		3,950	3,800	1,190	1,100		85	169.1	62.4%
10/5/2016	2,450	2,280	318	877		3,680	3,660	1,040	976		85	168.3	62.1%
10/6/2016	2,740	2,140	272	782		3,750	3,720	863	793		85	167.6	61.9%
10/7/2016	1,790	1,670	270	698		3,580	3,390	787	624		84	166.8	61.6%
10/8/2016	2,430	1,790	301	716		3,450	3,150	695	579		84	165.9	61.3%
10/9/2016	2,450	1,830	286	704		2,660	2,740	915	615		84	165.0	60.9%
10/10/2016	2,640	1,900	280	664		2,770	2,700	973	682		83	164.1	60.6%
10/11/2016	2,700	1,840	280	644		2,630	2,620	779	685		83	163.2	60.3%
10/12/2016	2,490	1,730	348	661		2,860	2,700	762	619		83	162.2	59.9%
10/13/2016	2,510	1,800	359	725		2,660	2,600	842	659		83	161.2	59.5%
10/14/2016	2,600	2,320	235	690		2,550	2,570	858	685		83	160.2	59.1%
10/15/2016	2,130	1,900	205	548		2,520	2,580	858	692		83	158.5	58.5%
10/16/2016	1,040	1,520	202	630		2,630	2,820	999	720		84	157.0	58.0%
10/17/2016	1,840	1,860	206	732		2,830	2,710	1,020	823		84	155.5	57.4%
10/18/2016	1,800	1,810	222	974		2,120	2,240	605	800		84	153.9	56.8%
10/19/2016	1,800	1,790	208	1,020		2,890	2,860	495	535		85	152.3	56.2%
10/20/2016	1,790	1,740	188	1,040		2,860	2,850	442	427		85	150.8	55.7%
10/21/2016	1,720	1,730	214	1,060		2,770	2,820	421	386		86	149.8	55.3%
10/22/2016	1,510	1,450	282	948		2,950	2,940	437	404		86	148.5	54.8%
10/23/2016	1,310	1,380	292	966		2,830	2,830	553	395		86	147.3	54.4%
10/24/2016	1,580	1,750	278	1,060		2,660	2,610	523	468		86	146.0	53.9%
10/25/2016	2,010	2,090	306	1,040		2,490	2,490	484	442		86	144.4	53.3%
10/26/2016	2,220	2,230	279	1,140		2,720	2,790	454	413		87	142.9	52.8%
10/27/2016	2,150	2,110	273	926		3,220	3,310	449	420		87	141.8	52.4%
10/28/2016	1,770	1,840	318	757		3,380	3,410	496	545		87	140.8	52.0%
10/29/2016	2,260	2,730	344	728		3,190	3,200	551	488		87	139.8	51.6%
10/30/2016	2,410	2,530	367	746		2,920	3,000	505	552		87	138.5	51.1%
10/31/2016	2,600	2,580	386	739		4,090	3,890	541	725		87	137.2	50.7%
Observed Average		1,970	292	869			3,104	790	744		72		
Mean Monthly		2,654	971	1,795			6,020	995	1,383				
% of Normal		74.2%	30.1%	48.4%			51.6%	79.4%	53.8%				

TODAY'S RESERVOIR OBSERVATIONS: 10/31/2016

*Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	137.2	50.7%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	173.7	64.1%
Blue Marsh	4.30	97.0%		(inches)	(BG)	(%)	(MG)	(MG)	BG Below Daily Storage Median =	36.5	-21.03%
Beltzville	9.45	70.1%	Neversink	0.00	22.8	65.3%	0	32	BG Above Drought Watch =	27.2	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	85.6	61.1%	459	142	BG Above Drought Warning =	47.2	
Blue Marsh 0	Merrill Creek	0	Cannonsville	0.00	28.8	30.1%	324	302	BG Above Drought =	67.2	
Beltzville 0	Wallenpaupack	0	Rondout	0.00	46.9	94.6%	803	0	BG Below One Year Ago =	37.4	

*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
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.