Delaware River Flow and Storage Data -September 2018

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)		Flow (cfs)		Flow (cfs)			Delaware River Basin Storage	
DAY	8:00 AM	Mean	Lehighton	Bethlehem	8:00 AM	Mean	Pottstown	Philadelphia	River Mile	(BG)*	Capacity
9/1/2018	5,270	5,020	1,890	3,210	10,800	10,800	8,320	7,800	66	259.5	97.0%
9/2/2018	5,350	5,440	1,710	3,370	10,900	11,000	6,630	8,010	66	258.1	96.5%
9/3/2018	5,030	5,010	1,230	2,750	10,700	10,600	4,140	6,050	66	256.8	96.0%
9/4/2018	4,850	4,850	1,160	2,510	9,820	9,700	3,560	4,580	67	255.2	95.4%
9/5/2018	4,510	4,450	1,470	2,410	9,440	9,180	3,230	3,930	67	253.7	94.8%
9/6/2018	4,440	4,460	2,570	3,650	9,010	8,930	3,730	4,080	67	252.1	94.3%
9/7/2018	4,360	4,270	2,660	3,960	9,710	9,830	4,380	4,840	67	250.9	93.8%
9/8/2018	4,560	4,480	2,470	3,850	10,700	10,300	5,720	10,700	67	249.5	93.3%
9/9/2018	4,240	4,170	2,550	3,860	10,200	10,100	4,640	7,370	67	248.1	92.8%
9/10/2018	4,170	4,870	4,300	6,910	11,200	11,800	8,080	13,500	68	246.8	92.3%
9/11/2018	17,400	16,900	4,670	8,060	20,700	20,000	10,100	12,300	68	247.1	92.4%
9/12/2018	14,700	13,700	6,170	8,530	30,800	30,600	9,100	11,300	68	246.7	92.2%
9/13/2018	10,600	10,800	5,000	7,650	29,800	28,100	7,040	11,200	67	246.0	92.0%
9/14/2018	10,100	10,500	3,160	5,670	23,300	22,100	5,350	7,610	67	245.6	91.8%
9/15/2018	10,100	9,990	2,320	4,520	19,600	19,300	4,260	6,050	66	244.7	91.5%
9/16/2018	9,110	8,900	2,120	4,070	17,800	17,500	3,740	5,180	66	243.6	91.1%
9/17/2018	8,170	8,490	2,090	3,960	16,100	15,900	3,430	4,720	64	242.3	90.6%
9/18/2018	8,230	10,400	6,150	7,720	16,300	18,900	4,040	9,320	63	241.9	90.5%
9/19/2018	15,300	14,900	4,110	7,830	30,700	29,700	4,850	7,190	62	243.6	91.1%
9/20/2018	12,600	11,900	3,840	6,720	28,800	28,100	3,930	5,850	63	243.4	91.0%
9/21/2018	10,000	9,840	3,380	5,820	24,200	23,200	3,500	5,020	63	242.8	90.8%
9/22/2018	8,230	8,140	2,650	4,930	20,100	19,600	3,210	4,550	63	243.0	90.9%
9/23/2018	10,300	9,520	2,420	4,440	17,200	16,700	2,970	4,290	63	243.3	91.0%
9/24/2018	8,130	7,900	2,250	4,120	17,800	16,900	2,750	3,970	64	243.1	90.9%
9/25/2018	8,270	9,980	2,840	5,370	15,400	17,800	4,010	6,890	65	243.2	90.9%
9/26/2018	26,700	25,800	3,260	6,730	27,600	29,900	5,340	10,000	65	246.5	92.2%
9/27/2018	22,600	24,300	3,560	6,480	44,100	41,900	4,780	7,180	64	249.7	93.4%
9/28/2018	20,800	23,900	4,760	9,840	57,000	52,800	7,960	19,600	63	252.3	94.3%
9/29/2018	26,900	24,800	4,250	8,680	47,800	48,700	6,660	10,700	62	255.4	95.5%
9/30/2018	18,700	18,100	3,890	7,230	43,400	40,900	5,440	7,820	61	257.0	96.1%
Observed Average		10,859	3,163	5,495		21,361	5,163	7,720	76		
Mean Monthly		2,016	477	1,099		4,439	781	1,102			
% of Normal		538.8%	662.7%	500.0%		481.2%	661.1%	700.5%			

TODAY'S RESERVOIR OBSERVATIONS: 9/30/2018

Lower Delaware Basin:**

	Vol. (BG)	Capacity
Blue Marsh	5.85	101.6%
Beltzville	13.76	102.0%

Directed Releases from Basin Reservoirs (cfs):

Blue Marsh	0	Merrill Creek	0
Beltzville	0	Wallenpaupack	0

New York City 24-hr, as of 8 am:

	7-Day Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Release (MG)
Neversink	3.67	34.9	100.7%	0	0
Pepacton	3.10	135.1	96.9%	0	0
Cannonsville	3.08	87.0	93.1%	0	0

NYC Daily Storage (BG)=	257.0	96.1%
NYC Daily Storage Median (BG)=	178.0	66.6%
BG Above Daily Storage Median =	79.0	44.37%
BG Above Drought Watch =	146.1	
BG Above Drought Warning =	166.1	
BG Above Drought =	186.1	
BG Above One Year Ago =	51.2	

* 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 **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 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.