Delaware River Flow and Storage Data -May 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
5/1/2018	9,600	9,770	2,080	3,840	17,500	17,500	2,880	3,970	61	272.5	100.6%
5/2/2018	9,770	9,690	2,050	3,680	16,900	16,900	2,690	3,710	60	272.4	100.6%
5/3/2018	9,210	9,120	2,060	3,660	16,700	16,500	2,500	3,510	59	272.1	100.5%
5/4/2018	8,530	8,630	1,890	3,530	16,100	16,000	2,390	3,300	58	272.1	100.5%
5/5/2018	7,240	7,310	1,310	3,010	15,600	15,200	2,290	3,180	57	272.0	100.4%
5/6/2018	6,870	6,820	1,250	2,700	13,700	13,400	2,190	3,090	58	271.8	100.3%
5/7/2018	7,060	7,450	1,310	2,820	12,900	12,900	2,240	3,240	59	271.6	100.3%
5/8/2018	7,710	7,620	1,270	2,610	13,000	13,200	2,030	3,040	61	271.6	100.3%
5/9/2018	6,750	6,660	1,360	2,670	13,400	13,200	1,820	2,790	62	271.3	100.2%
5/10/2018	7,180	6,600	1,310	2,540	12,400	12,200	1,710	2,570	64	271.1	100.1%
5/11/2018	6,840	6,430	1,690	2,720	12,500	12,000	1,680	2,480	65	271.4	100.2%
5/12/2018	5,930	6,110	1,990	3,510	13,700	12,900	2,000	2,830	66	271.2	100.1%
5/13/2018	6,050	6,360	1,400	3,220	13,800	13,500	2,660	4,360	67	271.1	100.1%
5/14/2018	6,510	6,970	2,070	3,550	14,200	14,300	3,360	6,130	67	271.1	100.1%
5/15/2018	7,910	8,210	2,220	4,050	14,700	14,900	3,230	4,960	67	270.7	99.9%
5/16/2018	9,320	10,400	2,990	5,150	16,600	17,000	3,110	5,520	67	271.0	100.0%
5/17/2018	10,900	10,400	5,180	9,120	29,300	29,700	5,510	12,600	67	271.0	100.1%
5/18/2018	8,800	8,580	6,020	9,330	31,100	29,800	5,950	9,130	67	271.2	100.1%
5/19/2018	8,130	9,030	5,390	9,730	25,500	26,800	6,760	10,600	66	271.2	100.1%
5/20/2018	18,800	18,900	5,530	10,400	34,100	34,000	9,810	13,700	65	272.2	100.5%
5/21/2018	17,500	17,100	5,470	9,160	39,400	37,900	7,690	10,500	64	272.3	100.5%
5/22/2018	13,000	12,900	4,690	8,280	34,100	32,900	6,360	8,390	61	271.9	100.4%
5/23/2018	14,900	15,500	8,570	12,900	29,800	33,100	6,520	8,440	59	271.9	100.4%
5/24/2018	15,100	14,300	6,650	11,000	36,600	36,000	5,550	7,250	55	271.7	100.3%
5/25/2018	11,600	11,100	4,810	8,450	31,100	29,700	4,510	6,000	<54	271.5	100.2%
5/26/2018	9,600	9,290	3,410	6,540	24,800	23,700	3,880	5,230	<54	271.1	100.1%
5/27/2018	8,400	8,140	2,960	5,770	24,900	28,300	3,750	11,200	<54	270.8	100.0%
5/28/2018	7,590	7,450	2,720	5,310	20,300	19,600	3,150	6,330	<54	270.5	99.9%
5/29/2018	6,220	6,180	2,280	4,770	17,600	17,300	2,820	4,620	<54	270.3	99.8%
5/30/2018	5,190	5,410	1,910	4,090	15,300	14,800	2,650	4,080	<54	270.0	99.7%
5/31/2018	4,740	4,820	1,670	3,590	13,400	13,000	2,390	3,800	<54	269.5	99.5%
Observed Average		9,137	3,081	5,539		20,587	3,745	5,824	68		
Mean Monthly		5,791	1,282	2,664		11,675	1,781	2,613			
% of Normal		157.8%	240.3%	207.9%		176.3%	210.2%	222.9%			

TODAY'S RESERVOIR OBSERVATIONS: 5/31/2018

*Lower Delaware Basin:	Vol. (BG)	Capacity
Blue Marsh	5.79	100.5%
Beltzville	13.50	100.1%

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 Rel (MG)
Neversink	0.17	34.8	99.5%	82	0
Pepacton	0.26	139.2	99.3%	401	0
Cannonsville	0.28	95.5	99.8%	299	0
Rondout	0.09	48.86	98.5%	613	0

NYC Daily Storage (BG)=	269.5	99.5%	
NYC Daily Storage Median (BG)=	269.5	99.5%	
BG Below Daily Storage Median =	0.0	0.00%	
BG Above Drought Watch =	79.5		
BG Above Drought Warning =	99.5		
BG Above Drought =	119.5		
BG Below One Year Ago =	2.0		

*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 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.