Delaware River Flow and Storage Data -April 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
4/1/2018	12,000	11,700	1,410	2,470	20,600	20,400	2,030	2,740	74	256.9	94.8%
4/2/2018	10,600	10,800	1,900	2,630	18,800	18,700	2,210	2,740	73	259.5	95.8%
4/3/2018	9,840	10,900	3,280	4,270	18,700	19,500	2,680	3,670	73	261.5	96.6%
4/4/2018	13,000	14,000	3,920	5,230	21,600	23,100	2,960	4,530	73	263.4	97.3%
4/5/2018	15,500	15,900	4,190	5,470	25,500	26,100	2,910	3,980	73	265.6	98.1%
4/6/2018	14,100	14,300	3,710	5,400	26,900	26,700	2,770	3,570	73	267.0	98.6%
4/7/2018	11,600	12,200	2,440	4,070	24,700	23,900	2,600	3,350	72	268.3	99.1%
4/8/2018	10,700	11,000	2,250	3,710	20,600	20,600	2,410	3,070	72	269.0	99.3%
4/9/2018	9,420	10,200	1,850	3,260	19,000	18,800	2,230	2,840	71	269.1	99.4%
4/10/2018	8,840	9,430	1,840	3,150	16,900	17,400	2,100	2,660	71	269.0	99.3%
4/11/2018	8,230	8,540	1,770	3,010	16,300	16,300	1,980	2,510	71	268.8	99.3%
4/12/2018	6,810	7,190	1,680	2,900	15,300	15,200	1,860	2,320	71	268.6	99.2%
4/13/2018	6,340	6,730	1,540	2,710	13,700	13,700	1,790	2,210	71	268.6	99.2%
4/14/2018	6,160	6,460	1,130	2,390	12,800	12,800	1,700	2,120	71	268.9	99.3%
4/15/2018	6,370	6,670	1,070	2,140	12,200	12,000	1,630	1,990	71	269.7	99.6%
4/16/2018	6,960	9,130	2,050	4,420	13,000	23,900	3,940	13,500	71	270.7	100.0%
4/17/2018	17,200	18,600	3,830	6,400	29,700	30,200	4,600	9,750	71	273.6	101.0%
4/18/2018	17,600	18,200	4,260	6,430	33,200	33,700	3,680	5,860	70	274.2	101.2%
4/19/2018	14,600	15,400	3,460	5,870	31,500	31,000	3,170	4,530	70	274.3	101.3%
4/20/2018	13,000	13,000	2,270	4,390	27,400	26,800	2,960	4,050	69	274.3	101.3%
4/21/2018	10,500	10,900	1,340	3,280	22,900	22,200	2,600	3,500	69	273.9	101.1%
4/22/2018	9,950	10,200	1,260	2,850	18,800	18,700	2,400	3,130	68	273.1	100.8%
4/23/2018	8,940	9,430	1,320	2,690	17,300	17,300	2,250	2,890	66	272.3	100.5%
4/24/2018	8,500	8,780	1,770	2,980	16,000	16,200	2,060	2,660	64	271.6	100.3%
4/25/2018	8,600	8,950	2,650	4,510	15,900	16,700	2,900	3,070	63	271.2	100.1%
4/26/2018	10,400	11,100	3,560	5,440	20,200	20,100	5,080	5,380	63	271.9	100.4%
4/27/2018	11,300	11,000	3,870	5,820	20,600	21,300	4,000	5,150	63	272.2	100.5%
4/28/2018	11,100	11,300	1,790	4,110	21,600	20,600	3,730	4,470	62	272.7	100.7%
4/29/2018	11,200	11,000	1,720	3,610	19,400	19,600	3,650	4,410	62	272.8	100.7%
4/30/2018	10,300	10,200	1,770	3,290	19,100	18,800	3,170	4,010	61	272.7	100.7%
Observed Average		11,107	2,363	3,963		20,743	2,802	4,022	67		
Mean Monthly		10,660	1,753	3,648		20,140	2,648	3,968			
% of Normal		104.2%	134.8%	108.6%		103.0%	105.8%	101.4%			

TODAY'S RESERVOIR OBSERVATIONS: 4/30/2018

*Lower Delaware Basin:	Vol. (BG)	Capacity
Blue Marsh	5.90	102.5%
Beltzville	13.54	100.3%
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	1.09	35.1	100.5%	0	0
Pepacton	1.58	140.7	100.4%	451	0
Cannonsville	1.50	96.8	101.2%	0	0
Rondout	1.10	48.77	98.3%	687	0

NYC Daily Storage (BG)=	272.7	100.7%
NYC Daily Storage Median (BG)=	270.8	100.0%
BG Above Daily Storage Median =	1.9	0.72%
BG Above Drought Watch =	83.2	
BG Above Drought Warning =	103.2	
BG Above Drought =	123.2	
BG Above One Year Ago =	3.0	

*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.