Delaware River Flow and Storage Data -March 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
3/1/2018	15,400	15,100	3,250	6,160	31,700	30,900	4,690	6,140	<54	256.4	94.7%
3/2/2018	14,500	17,300	4,770	9,570	38,200	40,300	8,560	17,800	<54	257.1	94.9%
3/3/2018	18,500	18,200	3,820	8,710	44,300	44,500	8,300	15,300	<54	258.0	95.3%
3/4/2018	14,800	14,900	2,420	6,280	38,900	37,600	6,560	11,000	59	258.3	95.4%
3/5/2018	12,800	13,000	2,540	5,490	31,100	30,700	5,380	8,140	64	258.4	95.4%
3/6/2018	11,500	11,600	3,190	5,990	27,400	27,500	4,570	6,510	67	258.2	95.3%
3/7/2018	10,900	11,300	3,140	5,690	25,600	25,900	4,320	6,280	69	257.9	95.2%
3/8/2018	10,500	11,300	2,950	5,400	26,000	25,700	4,330	7,210	70	257.6	95.1%
3/9/2018	10,200	10,100	2,720	4,900	24,300	24,200	3,760	6,530	70	257.1	94.9%
3/10/2018	8,300	8,260	1,490	3,810	22,100	21,700	3,240	5,340	71	256.3	94.7%
3/11/2018	7,650	7,560	1,370	3,210	18,500	18,200	2,950	4,660	71	255.5	94.4%
3/12/2018	7,210	8,070	1,420	3,070	17,200	17,000	2,750	4,270	71	254.7	94.0%
3/13/2018	7,880	8,280	1,690	3,380	16,600	17,300	2,640	4,050	72	254.3	93.9%
3/14/2018	7,370	7,300	1,940	3,440	17,500	17,500	2,530	3,860	72	254.5	94.0%
3/15/2018	6,420	6,570	2,030	3,520	16,300	16,200	2,330	3,440	72	254.6	94.0%
3/16/2018	6,220	6,290	1,880	3,450	15,300	15,200	2,220	3,200	73	254.6	94.0%
3/17/2018	5,990	5,490	1,120	2,620	14,700	14,400	2,060	2,960	73	254.4	93.9%
3/18/2018	4,240	4,550	1,070	2,360	13,100	12,900	1,980	2,750	73	254.3	93.9%
3/19/2018	4,070	4,880	1,080	2,280	11,300	11,200	1,910	2,620	74	254.0	93.8%
3/20/2018	5,050	5,230	1,180	2,350	10,700	10,800	1,850	2,450	73	253.7	93.7%
3/21/2018	4,850	4,690	1,190	2,430	11,600	11,500	1,920	2,530	73	253.4	93.6%
3/22/2018	4,790	4,540	1,140	2,430	11,800	11,300	2,040	2,790	74	253.1	93.4%
3/23/2018	4,740	4,640	1,010	2,320	11,300	11,000	2,130	3,150	74	252.7	93.3%
3/24/2018	4,790	4,110	997	2,330	11,600	11,500	2,260	3,930	74	252.3	93.2%
3/25/2018	3,740	3,850	995	2,290	12,500	11,900	2,280	4,270	74	251.7	92.9%
3/26/2018	3,930	4,470	977	2,170	10,800	10,700	2,160	3,580	74	251.2	92.7%
3/27/2018	5,160	5,080	985	2,090	10,400	10,500	2,090	3,230	74	250.7	92.5%
3/28/2018	5,320	5,230	1,010	2,180	11,200	11,200	2,090	3,040	74	250.1	92.3%
3/29/2018	6,810	7,090	1,090	2,320	11,600	11,600	2,160	3,090	74	249.4	92.1%
3/30/2018	7,650	8,770	1,330	2,440	12,900	13,300	2,160	3,090	74	249.8	92.2%
3/31/2018	13,600	13,800	1,450	2,680	14,500	15,500	2,160	2,950	74	253.6	93.6%
Observed Average		8,437	1,847	3,786		19,023	3,238	5,166	70		
Mean Monthly		8,820	1,768	3,835		18,220	2,838	4,596			
% of Normal		95.7%	104.4%	98.7%		104.4%	114.1%	112.4%			

TODAY'S RESERVOIR OBSERVATIONS: 3/31/2018

*Lower Delaware Basin:	Vol. (BG)	Capacity
Blue Marsh	4.55	102.5%
Beltzville	13.51	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	0.25	32.1	91.7%	0	0
Pepacton	0.24	130.6	93.2%	450	0
Cannonsville	0.61	90.9	95.0%	0	0
Rondout	0.19	47.30	95.3%	695	

NYC Daily Storage (BG)=	253.6	93.6%	
NYC Daily Storage Median (BG)=	259.5	95.8%	
BG Below Daily Storage Median =	5.9	-2.28%	
BG Above Drought Watch =	80.1		
BG Above Drought Warning =	100.1		
BG Above Drought =	120.1		
BG Above One Year Ago =	4.2		

*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.