

Delaware River Flow and Storage Data -July 2018



DAY	Delaware at Montague		Lehigh River		Delaware at Trenton		Schuylkill River		Salt Front River Mile	New York City Delaware River Basin Storage	
	Flow (cfs)		Flow (cfs)		Flow (cfs)		Flow (cfs)			(BG)*	Capacity
	8:00 AM	Mean	Lehighton	Bethlehem	8:00 AM	Mean	Pottstown	Philadelphia			
7/1/2018	3,080	3,060	827	1,660	7,630	7,250	1,980	2,820	70	248.2	92.8%
7/2/2018	3,000	3,050	778	1,560	6,500	6,310	1,660	2,380	70	247.3	92.5%
7/3/2018	3,050	3,040	617	1,400	5,680	5,800	1,450	2,110	70	246.5	92.2%
7/4/2018	2,970	2,790	610	1,440	5,680	5,760	1,330	2,160	70	245.7	91.9%
7/5/2018	2,770	2,690	779	1,960	5,590	6,010	2,830	2,050	70	244.9	91.6%
7/6/2018	2,430	2,300	890	1,860	6,500	6,400	3,170	5,670	70	244.4	91.4%
7/7/2018	2,650	2,170	875	1,540	5,800	5,730	1,920	3,840	71	243.8	91.1%
7/8/2018	2,210	2,110	794	1,510	4,750	4,900	1,500	2,380	71	243.0	90.9%
7/9/2018	1,940	1,760	576	1,430	4,640	4,480	1,390	1,910	71	242.0	90.5%
7/10/2018	1,960	1,710	547	1,120	4,420	4,250	1,320	1,730	71	241.1	90.1%
7/11/2018	1,850	1,730	539	1,090	3,780	3,690	1,270	1,610	71	240.2	89.8%
7/12/2018	1,860	1,720	533	1,050	3,640	3,550	1,240	1,520	71	239.3	89.5%
7/13/2018	1,740	1,760	527	1,030	3,510	3,480	1,100	1,440	72	238.4	89.1%
7/14/2018	2,370	2,000	498	988	3,450	3,390	1,040	1,270	72	237.6	88.8%
7/15/2018	1,950	1,950	671	1,450	3,320	3,480	1,750	1,690	72	237.2	88.7%
7/16/2018	2,040	2,160	591	1,370	4,870	4,680	1,560	2,860	72	236.5	88.4%
7/17/2018	2,140	2,220	618	1,310	4,380	4,760	2,360	2,570	72	235.6	88.1%
7/18/2018	2,530	2,340	787	1,890	5,070	5,480	1,700	5,260	72	235.1	87.9%
7/19/2018	2,060	1,880	616	1,490	5,550	5,710	1,630	2,360	73	234.5	87.7%
7/20/2018	1,810	1,630	560	1,160	4,910	4,900	1,300	1,900	73	233.7	87.4%
7/21/2018	2,160	1,720	774	1,160	4,130	4,170	2,400	1,980	73	232.8	87.1%
7/22/2018	1,720	1,470	1,190	2,710	4,600	4,920	3,990	5,120	73	232.1	86.8%
7/23/2018	1,900	2,470	2,200	6,640	5,760	8,460	5,370	8,350	73	231.8	86.7%
7/24/2018	4,680	5,500	6,810	11,800	11,600	13,200	5,830	9,930	73	233.6	87.4%
7/25/2018	8,630	10,800	5,910	12,100	29,100	27,200	7,750	11,100	73	235.4	88.0%
7/26/2018	13,200	16,900	7,590	10,800	30,000	30,900	8,370	11,100	73	240.4	89.9%
7/27/2018	18,600	16,300	8,150	10,600	31,300	34,000	7,140	9,520	72	244.2	91.3%
7/28/2018	10,100	9,400	7,330	9,570	32,200	30,200	6,100	8,350	72	246.1	92.0%
7/29/2018	7,210	6,790	7,060	8,780	23,600	22,800	4,150	6,280	71	247.2	92.4%
7/30/2018	5,490	5,390	5,120	7,730	19,500	18,800	3,330	4,620	70	247.9	92.7%
7/31/2018	4,570	4,560	1,990	4,110	16,100	14,400	2,900	4,180	68	247.4	92.5%

Observed Average	4,044	2,173	3,687		9,970	2,930	4,195		70		
Mean Monthly	2,442	663	1,434		5,451	1,066	1,342				
% of Normal	165.6%	327.6%	257.2%		182.9%	274.9%	312.6%				

TODAY'S RESERVOIR OBSERVATIONS: 7/31/2018											
Lower Delaware Basin**:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=		247.4	92.5%
	Vol. (BG)	Capacity	7-Day Precip		Usable	Storage	Draft	Directed Release	NYC Daily Storage Median (BG)=	229.1	85.7%
Blue Marsh	5.76	100.0%	(inches)		(BG)	(%)	(MG)	(MG)	BG Above Daily Storage Median =	18.3	7.99%
Beltzville	13.50	100.1%							BG Above Drought Watch =	83.5	
Directed Releases from Basin Reservoirs (cfs):			Neversink	0.93	34.1	98.3%	258	0	BG Above Drought Warning =	103.5	
Blue Marsh	0	Merrill Creek	Pepacton	2.00	130.1	93.4%	450	0	BG Above Drought =	123.5	
Beltzville	0	Wallenpaupack	Cannonsville	1.12	83.2	89.1%	0	0	BG Below One Year Ago =	4.7	

* 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 calculation 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, Lehigh 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.