Delaware River Flow and Storage Data - June 2016 Summary

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)		Min DO (mg/l)	Flow (cfs)		Flow (cfs)		Max Temp (C)		Delaware River Basin Storage	
DAY	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity
6/1/2016	3,080	2,760	752	2,320	7.9	7,100	7,440	1,520	1,910	26.8	71	265.0	97.9%
6/2/2016	2,970	2,610	745	1,790	8.2	7,240	7,200	1,220	1,740	26.7	71	264.3	97.6%
6/3/2016	2,530	2,360	567	1,430	8.0	6,190	6,290	1,070	1,480	25.4	71	263.5	97.3%
6/4/2016	2,510	2,350	617	1,380	8.1	5,510	5,550	1,040	1,380	26.2	71	263.1	97.2%
6/5/2016	2,300	2,360	691	1,460	8.2	5,230	5,380	1,060	1,380	24.8	70	263.1	97.1%
6/6/2016	3,310	3,860	939	2,270	8.2	5,510	6,030	1,350	1,940	25.5	70	264.1	97.5%
6/7/2016	5,300	5,040	1,140	2,240	8.2	7,480	7,640	1,320	1,790	25.5	71	264.1	97.5%
6/8/2016	3,970	3,870	975	2,120	8.2	9,660	9,480	1,140	1,680	23.4	71	264.2	97.5%
6/9/2016	3,880	3,730	948	1,940	8.7	9,440	8,860	1,140	1,670	22.0	71	263.8	97.4%
6/10/2016	3,670	3,410	859	1,720	8.9	7,680	7,620	965	1,450	22.9	70	263.3	97.2%
6/11/2016	3,250	3,100	852	1,510	8.5	6,960	6,970	851	1,230	25.0	71	262.5	96.9%
6/12/2016	2,370	2,360	802	1,510	8.1	6,100	6,230	785	1,100	26.6	71	261.8	96.7%
6/13/2016	2,210	2,200	567	1,400	8.2	5,760	5,550	746	995	25.6	71	260.9	96.3%
6/14/2016	3,050	2,490	479	1,180	8.2	5,030	4,850	700	943	25.8	71	260.1	96.0%
6/15/2016	2,970	2,400	500	1,070	8.0	4,490	4,590	685	904	26.2	71	259.1	95.7%
6/16/2016	2,910	2,360	470	1,140	7.9	4,570	4,590	761	928	24.4	72	258.2	95.3%
6/17/2016	2,760	2,270	465	1,160	8.0	4,640	4,610	1,110	1,030	25.0	72	257.3	95.0%
6/18/2016	2,700	2,170	438	1,050	7.7	4,570	4,530	928	1,300	26.0	72	256.5	94.7%
6/19/2016	2,190	2,020	421	976	7.2	4,420	4,310	792	1,090	27.6	72	255.7	94.4%
6/20/2016	2,220	2,020	410	941	6.8	4,130	4,060	738	962	28.5	72	254.9	94.1%
6/21/2016	2,430	2,060	425	978	6.9	3,920	3,850	713	902	29.1	72	253.9	93.8%
6/22/2016	2,600	2,180	414	963	6.7	3,880	3,830	670	876	28.5	72	253.0	93.4%
6/23/2016	2,530	2,040	402	896	6.8	3,920	3,810	645	821	27.8	72	252.0	93.1%
6/24/2016	1,870	1,710	399	891	6.9	3,990	3,820	649	807	27.0	73	251.2	92.7%
6/25/2016	1,840	1,670	596	861	7.0	3,850	3,650	681	803	27.9	73	250.4	92.5%
6/26/2016	1,960	1,830	630	1,090	7.0	3,350	3,290	676	812	28.3	73	249.6	92.1%
6/27/2016	1,940	1,810	455	1,110	7.0	3,640	3,430	607	800	28.3	74	248.7	91.8%
6/28/2016	2,100	1,950	478	986	7.0	3,780	3,610	694	868	27.6	74	247.9	91.5%
6/29/2016	2,410	2,260	541	1,310	7.3	3,920	4,260	746	1,010	27.6	74	247.4	91.4%
6/30/2016	3,670	3,040	435	1,100	7.4	4,790	4,650	865	943	27.5	75	246.7	91.1%
Observed Average		2,543	614	1,360			5,333	896	1,185		69		
Mean Monthly		3,167	964	1,987			7,183	1,389	1,847				
% of Normal		80.3%	63.7%	68.4%			74.2%	64.5%	64.2%				

TODAY'S RESERVOIR OBSERVATIONS: 6/30/2016

*Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	246.7	91.1%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	257.2	95.0%
Blue Marsh	5.76	100.1%		(inches)	(BG)	(%)	(MG)	(MG)	BG Below Daily Storage Median =	10.5	-4.09%
Beltzville	13.49	100.0%	Neversink	0.00	32.6	93.2%	114	0	BG Above Drought Watch =	56.7	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	129.9	92.8%	450	0	BG Above Drought Warning =	76.7	
Blue Marsh 0	Merrill Creek	0	Cannonsville	0.00	84.2	88.0%	0	107	BG Above Drought =	96.7	
Beltzville 0	Wallenpaupack	0	Rondout	0.00	48.7	98.2%	617	0	BG Below One Year Ago =	22.4	

*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.