Delaware River Flow and Storage Data -August 2014 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
8/1/2014	2,990	2,980	500	1,020	8.4	4,920	5,030	881	1,030	26.0	71	255.4	94.3%
8/2/2014	3,480	3,270	704	1,280	8.6	4,920	4,960	1,020	1,480	25.0	71	254.7	94.0%
8/3/2014	2,540	2,520	726	1,360	8.6	5,070	5,360	1,080	1,550	24.0	71	254.0	93.8%
8/4/2014	2,420	2,460	524	1,290	8.5	5,070	4,990	926	1,280	25.6	71	253.2	93.5%
8/5/2014	2,680	2,570	461	1,030	8.3	4,610	4,480	919	1,070	26.8	71	252.5	93.2%
8/6/2014	2,620	2,490	436	979	8.1	4,100	4,230	840	1,020	26.0	71	251.7	92.9%
8/7/2014	2,680	2,480	417	915	8.0	4,100	4,150	770	900	26.2	72	250.8	92.6%
8/8/2014	2,480	2,350	410	883	8.1	3,950	3,970	738	809	26.3	72	249.8	92.3%
8/9/2014	2,780	2,490	604	826	7.9	3,850	3,880	691	758	26.7	72	248.8	91.9%
8/10/2014	2,370	2,160	643	1,070	8.1	3,750	3,820	681	706	26.9	72	247.7	91.5%
8/11/2014	2,310	2,110	455	1,050	8.1	4,130	3,990	659	688	26.6	72	246.8	91.1%
8/12/2014	2,270	2,220	504	1,140	8.0	3,890	3,750	822	793	24.9	72	245.7	90.7%
8/13/2014	2,000	2,260	649	2,160	8.4	3,680	3,980	1,640	1,620	24.6	73	245.3	90.6%
8/14/2014	2,310	2,550	628	1,480	8.7	5,190	5,030	1,570	2,060	24.2	73	244.6	90.3%
8/15/2014	2,270	2,330	551	1,160	8.5	4,240	4,360	1,090	1,600	23.9	73	243.5	89.9%
8/16/2014	2,010	1,980	707	1,050	8.8	4,170	4,240	855	1,140	24.2	73	242.3	89.5%
8/17/2014	1,840	1,820	726	1,220	8.6	3,820	3,800	790	893	24.3	73	241.1	89.0%
8/18/2014	1,760	1,750	513	1,220	8.5	3,850	3,690	767	821	25.3	73	240.0	88.6%
8/19/2014	2,070	1,880	455	916	8.0	3,680	3,510	731	764	25.8	73	238.5	88.1%
8/20/2014	2,290	2,030	417	869	7.8	3,170	3,160	706	712	27.1	74	237.4	87.6%
8/21/2014	2,180	2,040	412	826	7.9	3,260	3,190	701	676	26.5	74	236.3	87.3%
8/22/2014	5,470	4,360	415	978	8.2	4,240	5,260	781	806	25.3	74	235.5	86.9%
8/23/2014	3,970	3,600	1,210	1,140	8.2	4,840	5,440	1,070	942	23.6	74	234.5	86.6%
8/24/2014	2,780	2,800	976	1,750	8.7	6,610	6,750	1,470	1,520	23.5	74	233.7	86.3%
8/25/2014	2,580	2,370	590	1,410	8.4	5,610	5,530	985	1,460	25.4	74	232.8	86.0%
8/26/2014	2,660	2,410	490	1,010	8.3	4,990	4,790	822	987	26.6	74	231.8	85.6%
8/27/2014	2,700	2,460	437	930	7.8	4,020	4,070	765	814	27.5	74	230.7	85.2%
8/28/2014	2,890	2,340	426	829	7.4	3,820	3,870	710	735	26.6	74	229.7	84.8%
8/29/2014	2,290	1,990	411	790	7.6	3,680	3,780	675	648	25.6	74	228.5	84.4%
8/30/2014	2,310	1,900	603	760	7.9	3,610	3,490	616	615	23.8	74	227.3	83.9%
8/31/2014	2,290	2,060	641	1,040	8.2	3,320	3,220	626	607	25.4	74	226.0	83.4%
Observed Average		2,420	569	1,109			4,315	884	1,016				
Mean monthly		2,168	493	1,116			4,442	749	1,085		74		
% of Normal		111.6%	115.4%	99.4%			97.1%	118.0%	93.7%				

TODAY'S RESERVOIR OBSERVATIONS: 8/31/2014

Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=	226.0	83.4%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	204.4	75.5%
*Blue Marsh	5.78	100.4%		(inches)	(BG)	(%)	(MG)	(MG)	BG Above Daily Storage Median =	21.6	10.57%
Beltzville	13.49	100.0%	Neversink	0.00	30.5	87.3%	303	64	BG Above Drought Watch =	89.0	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.01	119.0	85.0%	450	97	BG Above Drought Warning =	109.0	
Blue Marsh 0	Merrill Creek	0	Cannonsville	0.26	76.5	79.9%	0	513	BG Above Drought =	129.0	
Beltzville 0	Wallenpaupack	0	Rondout	0.01	47.8	96.3%	695	0	BG Below One Year Ago =	1.5	

*Percent capacity in Blue Marsh reservoir is based upon the normal summer pool storage of 5.75 BG. Percent capacity for Beltzville Reservoir is based upon the year-round, normal pool storage of 13.88 BG.

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 based on the 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. Reporting of the minimum dissolved oxygen for the Lehigh River at Glendon and the maximum temperature at the Schuylkill River at Vincent Dam will be discontinued at the end of September 2014. Reporting will begin again in June 2015.

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.