Delaware River Flow and Storage Data -October 2015 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
10/1/2015	4,770	4,720	493	1,510		7,870	8,020	2,980	3,260		76	186.0	68.7%
10/2/2015	4,170	3,930	466	1,160		8,900	8,790	2,450	3,900		77	186.5	68.8%
10/3/2015	2,830	2,880	546	1,400		8,690	8,440	2,450	5,670		77	186.5	68.9%
10/4/2015	2,530	2,440	562	1,420		7,580	7,540	2,280	3,660		76	186.5	68.8%
10/5/2015	2,150	2,130	479	1,160		6,960	6,700	1,830	2,700		76	186.3	68.8%
10/6/2015	1,940	1,940	479	1,060		5,680	5,560	1,160	1,950		75	185.7	68.6%
10/7/2015	1,790	1,990	442	1,020		4,950	4,900	980	1,410		75	184.8	68.2%
10/8/2015	2,280	2,270	410	938		4,490	4,430	887	1,230		75	183.9	67.9%
10/9/2015	2,280	2,310	462	1,040		4,340	4,480	890	1,170		74	182.8	67.5%
10/10/2015	2,320	2,300	2,310	1,980		4,830	5,080	1,040	1,620		74	182.1	67.2%
10/11/2015	2,080	2,050	2,310	2,460		4,950	6,080	947	1,380		74	181.5	67.0%
10/12/2015	2,040	2,030	800	2,250		5,230	6,020	806	1,200		74	180.8	66.8%
10/13/2015	1,920	1,910	588	1,120		5,350	5,110	737	1,040		74	179.9	66.4%
10/14/2015	1,800	1,800	365	1,060		4,270	4,230	697	944		74	178.9	66.0%
10/15/2015	1,750	1,750	304	825		3,990	3,920	696	873		74	177.9	65.7%
10/16/2015	1,750	1,760	297	792		3,510	3,520	784	857		74	177.1	65.4%
10/17/2015	1,970	1,960	285	750		3,380	3,360	778	953		74	176.3	65.1%
10/18/2015	1,940	2,110	274	712		3,290	3,280	760	924		75	175.7	64.9%
10/19/2015	2,010	2,020	272	701		3,380	3,380	733	879		75	175.1	64.6%
10/20/2015	2,120	2,060	248	690		3,380	3,500	742	887		75	174.4	64.4%
10/21/2015	2,040	2,030	238	657		3,450	3,450	730	853		75	173.5	64.1%
10/22/2015	1,840	1,830	247	648		3,450	3,460	705	847		75	172.7	63.8%
10/23/2015	1,800	1,800	250	657		3,380	3,380	719	857		76	171.9	63.5%
10/24/2015	1,740	1,730	241	637		3,160	3,160	709	887		76	171.1	63.2%
10/25/2015	1,820	1,830	254	658		3,070	3,090	696	905		77	170.4	62.9%
10/26/2015	1,890	1,930	258	671		3,070	3,110	709	881		78	169.7	62.7%
10/27/2015	1,970	1,980	249	650		3,260	3,250	709	949		79	169.3	62.5%
10/28/2015	1,910	1,850	339	925		3,350	3,650	771	1,140		80	168.9	62.3%
10/29/2015	3,490	5,940	2,840	5,540		4,130	6,250	4,850	4,400		81	170.4	62.9%
10/30/2015	15,000	12,400	3,260	5,690		14,600	16,300	5,600	7,960		81	173.4	64.0%
10/31/2015	7,490	7,150	1,320	3,230		22,100	20,000	2,910	4,720		81	174.6	64.5%
Observed Average		2,801	706	1,420			5,659	1,411	1,965		72		
Mean Monthly		2,654	971	1,795			6,020	995	1,383				
% of Normal		105.5%	72.7%	79.1%			94.0%	141.8%	142.1%				

TODAY'S RESERVOIR OBSERVATIONS: 10/31/2015

*Lower Delaware Basin:	Vol. (BG)	Capacity
**Blue Marsh	4.49	101.2%
Beltzville	13.57	100.6%

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:	Precip	Usable	Storage	Draft	Directed Rel
	(inches)	(BG)	(%)	(MG)	(MG)
Neversink	0.0	27.5	78.8%	0	0
Pepacton	0.0	99.2	70.8%	451	0
Cannonsville	0.0	47.9	50.1%	0	0
Rondout	0.0	46.9	94.6%	405	0

NYC Daily Storage (BG)=	174.6	64.5%
NYC Daily Storage Median (BG)=	173.7	64.1%
BG Above Daily Storage Median =	0.9	0.51%
BG Above Drought Watch =	64.6	
BG Above Drought Warning =	84.6	
BG Above Drought =	104.6	
BG Above One Year Ago =	6.4	

*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.

Blue Marsh Reservoir--Seasonal drawdown to usable storage 4.43 bg (Elev 285') began October 15.

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.