Delaware River Flow and Storage Data -November 30, 2013

Delaware River Basin Commission
DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA

	Delaware at Montague		Lehigh River			Delaware at Trenton		Schulkill River			Salt Front	New York City	
	Flow (cfs)		Flow (cfs)		DO (mg/l)	Flow (cfs)		Flow (cfs)		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
11/1/2013	1,630	1,690	343	751		3,170	3,300	1,060	1,030		76	195.9	72.3%
11/2/2013	1,960	1,970	367	880		3,200	3,240	941	1,340		76	195.9	72.3%
11/3/2013	2,500	2,440	332	792		3,320	3,300	886	1,110		77	195.4	72.1%
11/4/2013	2,470	2,440	314	715		3,350	3,400	778	963		77	194.9	72.0%
11/5/2013	2,170	2,170	380	706		3,820	3,780	673	830		78	194.7	71.9%
11/6/2013	1,730	1,670	393	762		3,750	3,770	661	749		78	194.4	71.8%
11/7/2013	1,480	1,490	406	771		3,550	3,490	660	762		79	194.2	71.7%
11/8/2013	1,510	1,660	446	834		3,130	3,100	727	768		79	194.4	71.8%
11/9/2013	2,030	2,130	377	938		2,920	2,920	773	840		79	194.2	71.7%
11/10/2013	2,170	2,160	344	878		2,980	3,150	711	869		79	193.9	71.6%
11/11/2013	2,140	2,180	339	739		3,480	3,520	689	763		79	193.7	71.5%
11/12/2013	2,120	2,050	335	676		3,420	3,390	675	756		79	193.7	71.5%
11/13/2013	1,700	1,820	382	685		3,320	3,300	673	741		79	193.5	71.4%
11/14/2013	1,660	1,750	382	714		3,230	3,190	630	726		79	193.2	71.3%
11/15/2013	1,550	1,670	378	827		2,920	3,020	611	692		79	192.9	71.2%
11/16/2013	1,600	1,670	306	916		2,980	3,030	615	688		79	192.6	71.1%
11/17/2013	1,660	1,660	292	857		2,980	3,070	609	702		80	192.3	71.0%
11/18/2013	1,660	1,630	336	796		3,040	3,070	665	738		80	192.3	71.0%
11/19/2013	1,600	2,050	357	727		3,170	3,090	733	790		81	192.3	71.0%
11/20/2013	2,280	2,550	367	707		3,010	2,990	729	833		81	192.1	70.9%
11/21/2013	1,980	1,980	360	698		3,130	3,320	654	789		81	191.9	70.9%
11/22/2013	2,050	1,950	359	692		3,890	3,800	608	733		82	191.7	70.8%
11/23/2013	2,000	1,970	338	689		3,230	3,260	600	720		82	191.4	70.7%
11/24/2013	2,080	2,150	324	647		3,170	3,150	584	705		81	190.9	70.5%
11/25/2013	2,010	2,410	316	599		3,040	3,070	565	672		81	190.5	70.3%
11/26/2013	2,100	2,200	332	676		3,170	3,290	529	674		81	190.0	70.2%
11/27/2013	2,700	3,280	926	2,440		6,610	7,570	2,410	5,110		81	191.4	70.7%
11/28/2013	11,000	10,300	1,110	2,430		10,400	9,990	3,200	5,140		80	195.7	72.3%
11/29/2013	7,720	7,470	949	1,840		14,600	14,100	2,070	3,250		79	197.8	73.0%
11/30/2013	5,520	5,300	837	1,600		12,200	11,800	1,510	2,290		78	199.2	73.5%
Observed Average		2,595	434	933			4,282	908	1,226				
Mean monthly		4,555	1,293	2,375			10,038	1,707	2,363		70		
% of Normal		57.0%	33.6%	39.3%			42.7%	53.2%	51.9%				

TODAY'S RESERVOIR OBSERVATIONS: 11/30/2013

Lower Delaware Basin:	Vol. (BG)	Capacity
*Blue Marsh	4.60	103.9%
Beltzville	13.53	97.5%

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	0.00	29.1	83.4%	0	0
Pepacton	0.00	104.0	74.3%	448	0
Cannonsville	0.00	66.0	69.0%	272	0
Rondout	0.00	47.4	95.6%	694	0

NYC Daily Storage (BG)=	199.2	73.5%
NYC Daily Storage Median (BG)=	197.8	73.0%
BG Above Daily Storage Median =	1.4	0.72%
BG Above Drought Watch =	89.2	
BG Above Drought Warning =	109.2	
BG Above Drought =	129.2	
BG Below One Year Ago =	5.0	

*Percent capacity is based upon winter pool storage.

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 2013. Reporting will begin again in June 2014.
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.