Delaware River Flow and Storage Data - September 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
9/1/2013	3,420	3,190	838	2,030	8.2	7,080	7,310	917	1,360	27.2	71	227.5	84.0%
9/2/2013	3,650	3,490	604	2,050	8.3	7,860	9,490	936	1,800	27.0	71	227.4	84.0%
9/3/2013	3,900	4,430	591	2,290	8.3	9,330	9,680	875	1,710	26.8	71	229.4	84.7%
9/4/2013	7,260	6,480	534	1,930	8.5	8,320	8,310	827	1,380	25.9	71	230.7	85.2%
9/5/2013	4,540	4,440	506	1,550	8.6	9,670	9,520	764	1,110	24.3	71	230.8	85.2%
9/6/2013	3,600	3,530	470	1,430	8.8	8,480	8,070	721	967	23.5	71	230.6	85.1%
9/7/2013	3,150	3,110	445	1,410	9.0	6,710	6,540	687	893	23.3	71	230.3	85.1%
9/8/2013	3,190	2,920	437	1,360	8.9	5,900	5,830	663	828	23.3	71	230.1	85.0%
9/9/2013	2,620	2,620	413	1,280	8.9	5,480	5,570	660	797	22.4	71	229.8	84.8%
9/10/2013	3,060	2,840	407	1,130	8.4	4,920	4,910	652	800	24.8	71	229.2	84.6%
9/11/2013	3,080	2,950	406	1,110	8.0	4,610	4,820	634	841	27.1	71	228.7	84.4%
9/12/2013	3,360	3,220	459	1,170	7.3	4,570	5,030	664	834	26.8	71	229.0	84.5%
9/13/2013	3,510	3,700	670	1,550	8.2	5,230	5,860	884	997	25.2	71	229.4	84.7%
9/14/2013	3,490	3,650	725	1,440	8.4	6,160	6,240	893	1,050	22.7	71	229.6	84.8%
9/15/2013	3,100	3,200	602	1,330	9.0	6,430	6,260	721	974	21.0	71	229.4	84.7%
9/16/2013	2,720	2,850	501	1,220	9.2	5,950	5,770	680	827	20.5	71	229.0	84.6%
9/17/2013	2,490	2,510	482	1,100	9.3	5,360	5,200	682	780	20.1	71	228.7	84.4%
9/18/2013	2,280	2,270	471	1,050	9.3	4,720	4,710	639	768	20.1	72	228.2	84.3%
9/19/2013	2,170	2,130	467	1,000	9.1	4,310	4,270	574	722	20.7	72	227.6	84.1%
9/20/2013	2,000	1,980	465	998	8.9	4,020	4,010	580	641	21.4	72	227.0	83.8%
9/21/2013	2,150	2,010	467	980	8.3	3,850	3,850	586	688	21.6	72	226.4	83.6%
9/22/2013	2,760	2,490	552	1,310	8.7	4,170	4,220	808	1,550	20.6	72	225.8	83.4%
9/23/2013	2,030	2,030	502	1,130	9.0	4,460	4,480	921	1,210	19.7	72	225.4	83.2%
9/24/2013	2,450	2,220	470	992	9.0	4,460	4,380	726	1,070	19.5	72	224.6	82.9%
9/25/2013	2,560	2,220	461	964	9.2	3,820	3,860	654	856	19.4	72	223.8	82.6%
9/26/2013	2,300	2,070	455	946	9.0	3,890	3,910	627	798	19.8	72	223.0	82.3%
9/27/2013	2,320	1,970	453	937	9.0	3,890	3,820	617	747	20.8	72	222.2	82.0%
9/28/2013	1,620	1,610	450	925	9.1	3,750	3,680	587	646	21.1	73	221.3	81.7%
9/29/2013	1,620	1,610	446	899	9.0	3,750	3,600	566	615	20.3	73	220.2	81.3%
9/30/2013	1,840	2,010	441	891	9.1	3,290	3,290	558	583	20.0	73	219.1	80.9%
Observed Average		2,858	506	1,280			5,550	710	961				
Mean monthly		2,016	477	1,099			4,439	781	1,102		76		
% of Normal		141.8%	106.1%	116.5%			125.0%	90.9%	87.2%				

TODAY'S RESERVOIR OBSERVATIONS: 9/30/2013

Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	219.1	80.9%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	181.3	66.9%
Blue Marsh	5.76	100.1%		(inches)	(BG)	(%)	(MG)	(MG)	BG Above Daily Storage Median =	37.7	20.81%
Beltzville	13.90	100.2%	Neversink	0.00	27.4	78.4%	0	65	BG Above Drought Watch =	108.2	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	114.3	81.6%	431	97	BG Above Drought Warning =	128.2	
Blue Marsh 0.0	Merrill Creek	0.0	Cannonsville	0.00	77.4	80.9%	226	572	BG Above Drought =	148.2	
Beltzville 100.0	Wallenpaupack	0.0	Rondout	0.00	47.4	95.5%	696	0	BG Above One Year Ago =	34.7	

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.
7. DRBC made a directed release of 100 cfs from Beltzville Reservoir on September 30, 2013.