Delaware River Flow and Storage Data -September 2014 Summary

DAY	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	
	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity
9/1/2014	2,140	2,020	442	1,020	7.9	3,750	3,480	734	1,220	27.0	74	224.9	83.0%
9/2/2014	2,180	2,190	375	744	7.2	3,850	3,540	643	857	28.3	74	223.8	82.6%
9/3/2014	2,100	2,030	368	751	7.6	3,230	3,220	636	681	27.8	74	222.8	82.3%
9/4/2014	2,620	2,300	360	719	7.7	3,260	3,330	615	624	27.5	75	221.6	81.8%
9/5/2014	2,160	2,140	357	703	7.6	3,130	3,120	598	593	27.1	75	220.7	81.5%
9/6/2014	2,140	2,140	353	759	7.2	3,350	3,350	727	578	27.7	75	219.8	81.1%
9/7/2014	2,420	1,860	414	924	7.7	3,390	3,540	819	1,190	25.9	75	219.0	80.9%
9/8/2014	1,720	1,520	367	798	7.6	3,550	3,520	770	954	24.4	75	218.3	80.6%
9/9/2014	1,660	1,480	345	932	7.9	3,320	3,140	636	782	23.1	75	217.2	80.2%
9/10/2014	1,810	1,620	337	955	8.4	2,890	2,850	605	635	24.5	75	216.1	79.8%
9/11/2014	1,930	1,820	337	951	8.2	2,810	2,820	596	590	24.2	76	214.9	79.4%
9/12/2014	1,720	1,740	329	851	7.9	2,980	2,870	590	556	24.1	76	213.6	78.9%
9/13/2014	1,890	1,830	313	784	8.0	2,830	2,930	575	637	22.6	76	212.2	78.4%
9/14/2014	1,890	1,930	329	744	8.2	2,860	2,920	632	725	21.4	76	210.8	77.8%
9/15/2014	2,180	2,140	301	713	8.6	2,950	2,940	644	675	21.0	76	209.4	77.3%
9/16/2014	2,000	1,990	298	650	8.4	3,070	3,060	557	663	21.2	76	208.1	76.8%
9/17/2014	2,440	2,180	293	628	8.3	3,260	3,200	530	596	21.7	76	206.8	76.4%
9/18/2014	2,540	2,210	289	604	8.3	2,980	2,990	509	541	21.2	76	205.4	75.8%
9/19/2014	2,230	2,070	282	592	8.4	3,200	3,090	511	493	20.4	76	204.3	75.4%
9/20/2014	1,940	1,830	280	747	8.5	3,200	3,080	490	509	21.8	77	202.8	74.9%
9/21/2014	1,590	1,890	279	796	8.4	3,170	3,080	475	479	22.7	77	201.2	74.3%
9/22/2014	2,000	1,980	277	793	8.4	2,980	2,920	476	470	21.6	77	199.8	73.8%
9/23/2014	2,330	2,030	293	794	8.6	2,720	2,880	473	429	20.9	77	198.4	73.3%
9/24/2014	2,660	2,110	295	634	8.8	3,010	2,990	554	428	19.9	77	197.0	72.7%
9/25/2014	2,350	2,000	292	612	7.4	3,100	3,010	713	752	18.7	78	195.8	72.3%
9/26/2014	2,180	1,970	271	605	9.0	3,230	3,090	769	951	20.3	78	194.8	71.9%
9/27/2014	2,160	1,830	238	708	8.2	3,070	2,940	558	827	21.7	78	193.5	71.4%
9/28/2014	2,380	1,790	212	719	8.7	3,040	2,960	457	590	22.8	79	192.0	70.9%
9/29/2014	2,100	1,900	210	706	8.6	2,920	2,830	437	480	21.6	79	190.5	70.3%
9/30/2014	2,070	2,040	207	704	8.6	2,920	2,800	442	433	22.8	79	188.9	69.7%
Observed Average		1,953	311	755			3,083	592	665				
Mean monthly		2,016	477	1,099			4,439	781	1,102		76		
% of Normal		96.9%	65.2%	68.7%			69.5%	75.8%	60.3%				

TODAY'S RESERVOIR OBSERVATIONS: 9/30/2014

*Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=	188.9	69.7%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	181.3	66.9%
Blue Marsh	5.55	96.4%		(inches)	(BG)	(%)	(MG)	(MG)	BG Above Daily Storage Median =	7.5	4.16%
Beltzville	11.90	88.2%	Neversink	0.00	27.2	77.9%	0	58	BG Above Drought Watch =	78.0	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	104.7	74.8%	449	65	BG Above Drought Warning =	98.0	
Blue Marsh 100	Merrill Creek	0	Cannonsville	0.02	57.0	59.5%	279	793	BG Above Drought =	118.0	
Beltzville 250	Wallenpaupack	0	Rondout	0.00	47.7	96.0%	808	0	BG Below One Year Ago =	30.2	

*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.

DRBC is currently directing releases from lower basin reservoir storage to meet the flow target of 3,000 cfs at the Delaware River at Trenton, NJ.

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.