

Delaware River Flow and Storage Data -October 31, 2013



DAY	Delaware at Montague		Lehigh River			Delaware at Trenton		Schuylkill River			Salt Front	New York City	
	Flow (cfs)		Flow (cfs)		DO (mg/l)	Flow (cfs)		Flow (cfs)		Temp (C)		RM	Delaware River Basin Storage
	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	(BG)		Capacity
10/1/2013	1,960	2,080	436	965		3,290	3,280	528	570		73	217.8	80.4%
10/2/2013	1,940	1,950	431	878		3,550	3,770	511	548		73	216.6	80.0%
10/3/2013	1,940	1,910	431	829		3,610	3,640	510	504		73	215.4	79.5%
10/4/2013	1,680	1,690	428	827		3,520	3,540	530	506			214.8	79.3%
10/5/2013	1,650	1,740	428	848		3,550	3,510	555	526			214.0	79.0%
10/6/2013	1,890	1,920	428	834		3,350	3,370	583	569			213.1	78.7%
10/7/2013	2,600	2,610	474	1,190		3,350	3,550	652	843			212.3	78.4%
10/8/2013	2,960	3,010	562	1,260		3,850	4,500	1,130	1,170			212.9	78.6%
10/9/2013	2,980	2,920	469	1,050		5,270	5,230	955	1,330			212.9	78.6%
10/10/2013	2,430	2,360	453	1,030		5,150	5,080	837	1,180			212.7	78.5%
10/11/2013	2,080	2,030	558	1,340		4,990	5,070	4,290	3,210			212.4	78.4%
10/12/2013	1,830	1,810	1,380	1,610		5,150	5,080	5,930	8,000			212.0	78.3%
10/13/2013	1,700	1,670	1,400	2,160		4,380	4,670	3,110	4,650			211.4	78.1%
10/14/2013	1,600	1,610	711	1,650		4,760	4,730	2,250	2,850			210.8	77.8%
10/15/2013	1,620	1,670	552	1,080		4,310	4,060	1,970	2,320			210.2	77.6%
10/16/2013	1,810	1,840	527	1,050		3,450	3,500	1,640	1,960			209.4	77.3%
10/17/2013	1,830	1,860	371	948		3,480	3,460	1,420	1,700			208.7	77.1%
10/18/2013	1,810	2,050	364	811		3,480	3,540	1,310	1,570			208.0	76.8%
10/19/2013	1,930	2,030	340	805		3,390	3,380	1,220	1,470			207.3	76.5%
10/20/2013	1,680	1,830	325	804		3,350	3,600	1,210	1,440			206.4	76.2%
10/21/2013	1,680	1,780	319	770		3,520	3,520	1,180	1,370			205.8	76.0%
10/22/2013	1,570	1,540	371	742		3,290	3,330	1,090	1,340		74	205.1	75.7%
10/23/2013	1,420	1,450	374	789		3,170	3,240	1,040	1,230		74	204.2	75.4%
10/24/2013	1,650	1,560	298	758		3,100	3,050	973	1,170		74	203.3	75.1%
10/25/2013	1,700	1,730	284	669		2,860	2,870	939	1,090		74	202.2	74.7%
10/26/2013	1,730	1,740	282	653		2,860	2,860	897	1,050		74	201.1	74.3%
10/27/2013	1,760	1,770	283	644		2,950	2,980	879	1,010		75	200.0	73.9%
10/28/2013	1,730	1,770	282	640		3,010	3,010	874	972		75	199.0	73.5%
10/29/2013	1,760	1,940	294	636		3,040	3,050	796	960		75	198.2	73.2%
10/30/2013	1,660	1,910	298	649		2,980	3,060	788	898		75	197.2	72.8%
10/31/2013	1,680	1,680	300	655		3,100	3,230	795	905		75	196.3	72.5%

Observed Average	1,918	466	954			3,702	1,335	1,578					
Mean monthly	2,654	971	1,795			6,020	995	1,383			72		
% of Normal	72.3%	48.0%	53.1%			61.5%	134.2%	114.1%					

TODAY'S RESERVOIR OBSERVATIONS: 10/31/2013

Lower Delaware Basin: Storage in Blue Marsh Reservoir is currently being reduced to the winter pool storage capacity of 4.42 BG.			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=	196.3	72.5%	
	Vol. (BG)	%Capacity	Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=	173.7	64.1%	
Blue Marsh	4.48	101.2%		26.6	76.0%	0	36	BG Above Daily Storage Median =	22.6	13.02%	
Beltzville	13.87	99.9%	0.00	106.1	75.8%	299	65	BG Above Drought Warning =	86.3		
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	63.7	66.5%	330	363	BG Above Drought =	126.3	
Blue Marsh	0.0	Merrill Creek	0.0								
Beltzville	0.0	Wallenpaupack	0.0	47.2	95.1%	695	0	BG Below One Year Ago =	7.5		

*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 calculation 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
 - 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.
 - 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
 - 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).
 - 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.
 - NYC Storage Median based on beginning of month values reported to the Delaware River Master from June 1967 - May 2013
 - Drought Watch, Warning and Drought are defined by Figure 1 of Article 2 in the Delaware River Basin Water Code 18 CFR Part 410.
 - Due to problems with the Delaware River at Reedy Island monitor earlier this month, the salt front river mile data is unavailable for October 4-21, 2013.