

Delaware River Flow and Storage Data - September 2016



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
9/1/2016	2,340	2,110	334	756	7.3	3,710	3,630	461	402	27.1	73	204.8	75.6%
9/2/2016	1,840	1,680	326	705	7.5	3,710	3,550	457	447	26.0	73	204.1	75.3%
9/3/2016	1,500	1,530	488	667	7.6	3,420	3,260	449	404	25.1	74	202.8	74.9%
9/4/2016	1,740	1,710	543	885	7.6	2,860	2,780	409	396	25.2	74	201.6	74.4%
9/5/2016	1,720	1,690	364	876	7.7	2,690	2,690	382	356	24.8	75	200.4	74.0%
9/6/2016	1,550	1,570	300	713	7.6	2,800	2,810	374	352	25.9	76	199.0	73.5%
9/7/2016	1,820	1,810	293	750	7.4	2,630	2,630	362	343	26.8	77	197.7	73.0%
9/8/2016	1,870	1,940	290	669	6.9	2,520	2,510	374	341	28.3	77	196.8	72.7%
9/9/2016	2,120	2,080	287	661	7.0	2,570	2,580	375	349	29.3	78	196.2	72.5%
9/10/2016	1,850	1,920	273	657	6.9	2,660	2,700	492	349	29.7	78	195.3	72.1%
9/11/2016	2,170	2,080	253	750	7.0	2,950	2,930	652	412	28.2	78	194.5	71.8%
9/12/2016	1,770	1,820	248	743	7.4	2,720	2,800	582	516	26.1	78	193.6	71.5%
9/13/2016	2,060	2,040	248	743	7.5	3,040	2,990	562	488	25.5	78	192.2	71.0%
9/14/2016	1,840	1,850	247	700	7.5	2,720	2,740	531	475	26.1	78	190.8	70.4%
9/15/2016	1,890	1,900	239	679	7.8	2,890	2,870	503	420	25.3	79	189.2	69.9%
9/16/2016	1,940	1,990	224	709	8.0	2,720	2,700	526	403	24.2	79	187.5	69.2%
9/17/2016	2,210	2,190	214	713	7.8	2,740	2,760	527	422	23.6	79	185.8	68.6%
9/18/2016	2,100	2,200	200	535	6.3	2,800	2,880	439	446	24.2	80	184.7	68.2%
9/19/2016	1,510	1,530	299	870	6.7	3,290	3,250	1,400	1,400	23.8	81	184.3	68.1%
9/20/2016	1,790	2,070	346	935	8.1	3,710	3,890	1,340	1,650	23.7	81	184.3	68.0%
9/21/2016	2,550	2,260	325	812	7.8	3,480	3,310	691	1,050	24.8	81	183.0	67.6%
9/22/2016	2,740	2,470	282	790	7.7	2,980	3,280	525	652	25.0	82	181.7	67.1%
9/23/2016	2,610	2,370	236	698	7.3	3,580	3,450	452	512	24.7	82	180.3	66.6%
9/24/2016	2,550	2,440	216	542	7.5	3,680	3,470	411	423	23.8	82	179.1	66.1%
9/25/2016	2,130	2,020	207	493	7.8	3,420	3,290	437	403	22.1	83	178.0	65.7%
9/26/2016	1,910	1,830	204	483	8.0	3,350	3,200	484	419	20.6	83	176.9	65.3%
9/27/2016	1,870	1,830	216	698	7.8	2,920	2,930	537	491	21.3	83	175.9	65.0%
9/28/2016	1,820	1,760	235	698	8.2	2,920	2,930	559	516	20.0	84	174.8	64.5%
9/29/2016	1,820	1,760	228	724	8.3	2,800	2,890	604	620	18.9	85	173.8	64.2%
9/30/2016	1,820	1,840	338	1,610	8.8	2,920	3,000	2,000	2,120	17.7	85	172.9	63.9%

Observed Average	1,943	283	742			3,023	597	586		76		
Mean Monthly	2,016	477	1,099			4,439	781	1,102				
% of Normal	96.4%	59.4%	67.5%			68.1%	76.4%	53.2%				

TODAY'S RESERVOIR OBSERVATIONS: 9/30/2016												
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=				
	Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)		NYC Daily Storage Median (BG)=	172.9	63.9%
Blue Marsh	5.39	93.7%								181.3	66.9%	
Beltzville	12.09	89.6%		0.05	25.4	72.7%	0	43		8.4	-4.63%	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.45	101.5	72.4%	451	65		62.1		
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.46	46.0	48.1%	300	360	82.1		
Beltzville	0	Wallenpaupack	0	Rondout	0.02	44.8	90.2%	665	0	102.1		
											11.8	

*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. 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 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 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
- 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).
 - 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.
 - 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.