

Delaware River Flow and Storage Data -September 2015 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
9/1/2015	2,350	2,160	468	842	7.7	4,200	7,480	592	677	28.3	73	212.9	78.6%
9/2/2015	2,350	2,120	462	840	7.4	3,780	3,760	574	691	28.6	74	211.9	78.3%
9/3/2015	2,350	2,100	457	827	7.2	3,850	3,750	552	657	28.5	74	211.0	77.9%
9/4/2015	2,210	1,860	438	819	7.2	3,810	3,720	542	613	28.6	74	210.1	77.6%
9/5/2015	1,920	1,720	1,050	864	7.4	3,710	3,640	548	605	28.5	75	209.0	77.2%
9/6/2015	1,990	1,720	757	1,350	7.7	3,480	3,450	518	604	27.3	75	208.1	76.8%
9/7/2015	2,130	1,890	464	1,110	7.8	3,950	3,650	506	598	27.5	75	207.1	76.5%
9/8/2015	2,240	2,060	405	753	7.2	3,710	3,420	504	571	28.4	76	206.0	76.1%
9/9/2015	2,390	2,160	399	723	6.6	3,260	3,180	505	554	29.0	76	204.7	75.6%
9/10/2015	2,410	2,230	435	1,410	6.9	3,510	3,780	827	1,130	27.6	76	204.0	75.3%
9/11/2015	1,690	1,610	528	2,160	8.0	4,420	5,600	2,220	3,110	24.2	76	203.3	75.1%
9/12/2015	1,700	1,520	481	1,530	8.3	5,850	5,600	1,680	2,300	23.1	76	202.6	74.8%
9/13/2015	3,290	2,680	585	3,580	8.6	4,420	5,600	3,800	2,790	22.2	76	202.2	74.7%
9/14/2015	2,240	2,140	491	1,980	9.2	7,630	7,630	2,380	3,330	21.5	76	201.8	74.5%
9/15/2015	1,800	1,810	497	1,630	9.4	6,680	6,460	1,700	2,120	22.3	76	201.1	74.2%
9/16/2015	1,870	1,720	483	1,480	9.2	5,350	5,250	1,390	1,700	23.3	76	200.2	73.9%
9/17/2015	1,800	1,670	475	1,360	9.0	4,680	4,670	1,230	1,440	23.9	76	199.4	73.6%
9/18/2015	1,770	1,650	400	1,110	8.8	4,380	4,280	902	1,260	24.3	76	198.3	73.2%
9/19/2015	1,690	1,620	387	970	8.6	3,950	3,870	823	998	24.6	76	197.1	72.8%
9/20/2015	2,280	2,160	371	921	8.3	3,710	3,620	764	901	24.3	76	196.0	72.4%
9/21/2015	1,790	1,790	362	859	8.3	3,510	3,490	716	812	22.4	76	194.9	71.9%
9/22/2015	1,750	1,740	337	843	8.5	3,810	3,810	660	762	21.3	76	193.7	71.5%
9/23/2015	1,750	1,760	328	795	8.7	3,480	3,500	634	750	22.2	74	192.3	71.0%
9/24/2015	1,850	1,780	324	773	8.5	3,380	3,360	597	715	22.2	74	191.0	70.5%
9/25/2015	1,740	1,750	320	752	8.4	3,320	3,310	557	655	22.2	74	189.6	70.0%
9/26/2015	1,820	1,840	312	727	8.4	3,320	3,290	535	646	20.5	74	188.1	69.5%
9/27/2015	2,530	2,050	306	700	8.4	3,190	3,200	499	654	20.5	75	186.9	69.0%
9/28/2015	1,820	1,820	306	694	8.1	3,260	3,270	494	640	22.0	75	185.6	68.5%
9/29/2015	1,790	1,840	311	766	8.0	3,580	3,480	512	671	22.6	76	184.7	68.2%
9/30/2015	2,530	3,410	445	1,940	8.4	3,920	4,950	1,730	2,800	22.1	76	184.7	68.2%

Observed Average	1,946	446	1,170			4,269	983	1,192					
Mean Monthly	2,016	477	1,099			4,439	781	1,102		76			
% of Normal	96.6%	93.5%	106.5%			96.2%	125.9%	108.1%					

TODAY'S RESERVOIR OBSERVATIONS: 9/30/2015

*Lower Delaware Basin:		New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=		184.7	68.2%
Vol. (BG)	Capacity	Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=	181.3	66.9%		
Blue Marsh	6.02	104.6%					BG Above Daily Storage Median =	3.4	1.87%		
Beltzville	13.55	100.4%	Neversink	0.1	26.6	76.1%	BG Above Drought Watch =	73.8			
Directed Releases from Basin Reservoirs (cfs):		Pepacton	0.1	105.0	75.0%	114	0	BG Above Drought Warning =	93.8		
Blue Marsh	0	Merrill Creek	0	Cammonsville	0.1	53.2	55.6%	0	0	BG Above Drought =	113.8
Beltzville	0	Wallenpaupack	0	Rondout	0.3	46.5	93.8%	405	0	BG Below One Year Ago =	4.2

*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. 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).
As of 9/24/15--USGS specific conductance data from Reedy Island Jetty, DE and Chester, PA gages is being used to determine the salt front location.
 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. 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.
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.