

Delaware River Flow and Storage Data -August 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
8/1/2015	3,580	3,630	1,080	1,610	8.2	7,870	7,480	967	1,310	28.2	71	238.2	87.9%
8/2/2015	3,530	3,350	975	1,620	8.2	6,870	6,880	853	1,050	28.5	71	236.6	87.3%
8/3/2015	3,490	3,270	718	1,520	8.2	6,410	6,480	798	914	28.7	71	235.6	87.0%
8/4/2015	3,250	2,980	683	1,360	8.1	6,020	6,170	816	1,020	29.0	71	234.6	86.6%
8/5/2015	2,680	2,550	656	1,240	8.1	5,930	5,980	918	1,000	28.0	71	233.6	86.3%
8/6/2015	2,320	2,190	637	1,150	8.2	5,270	5,320	785	963	27.6	71	232.6	85.9%
8/7/2015	2,080	1,930	622	1,100	8.2	4,720	4,810	730	802	27.6	71	231.7	85.6%
8/8/2015	2,340	1,940	820	1,050	8.2	4,340	4,330	697	760	26.9	71	230.7	85.2%
8/9/2015	2,010	1,780	826	1,270	8.2	4,060	4,070	671	720	26.3	72	229.8	84.9%
8/10/2015	1,960	1,780	663	1,330	8.2	4,340	4,160	677	711	25.3	72	229.0	84.5%
8/11/2015	1,990	1,930	1,240	1,940	8.5	4,420	4,340	1,060	1,070	24.7	72	228.4	84.3%
8/12/2015	3,180	3,040	1,100	2,400	8.6	5,760	6,000	1,550	1,600	25.2	72	228.0	84.2%
8/13/2015	3,290	2,980	781	1,690	8.6	6,100	6,260	1,020	1,570	26.3	72	227.4	84.0%
8/14/2015	2,170	2,240	683	1,340	8.5	6,150	6,110	833	1,040	26.9	72	226.7	83.7%
8/15/2015	2,300	2,120	857	1,170	8.3	5,310	5,220	709	832	28.3	72	225.8	83.4%
8/16/2015	2,280	2,040	852	1,360	8.1	4,380	4,520	657	673	29.2	72	225.0	83.1%
8/17/2015	2,320	2,120	623	1,310	8.0	4,420	4,420	653	637	29.8	72	224.3	82.8%
8/18/2015	2,300	2,060	583	1,010	7.8	4,490	4,330	667	617	29.8	72	223.3	82.5%
8/19/2015	2,260	2,080	559	978	7.7	4,020	4,040	641	637	29.6	72	222.4	82.1%
8/20/2015	2,210	2,000	580	1,010	7.7	4,060	4,140	665	698	28.8	72	221.5	81.8%
8/21/2015	3,510	3,640	864	1,730	8.0	5,030	5,470	2,460	4,590	26.8	72	221.1	81.7%
8/22/2015	4,490	4,450	897	1,430	8.1	6,020	6,780	2,380	3,110	25.7	72	220.8	81.5%
8/23/2015	3,810	3,670	837	1,420	8.3	8,380	8,210	1,340	2,030	25.4	72	220.1	81.3%
8/24/2015	2,870	2,700	605	1,340	8.3	7,530	7,340	1,160	1,300	26.1	72	219.4	81.0%
8/25/2015	2,660	2,460	625	1,070	8.1	6,370	6,140	854	1,120	27.3	72	218.6	80.7%
8/26/2015	2,410	2,230	589	1,060	8.1	5,270	5,350	770	815	26.2	73	217.9	80.4%
8/27/2015	2,220	2,060	557	983	8.2	4,790	4,770	703	724	25.3	73	217.2	80.2%
8/28/2015	2,150	1,940	546	915	8.4	4,380	4,340	678	645	25.7	73	216.4	79.9%
8/29/2015	2,080	1,870	1,120	982	8.5	3,990	3,980	657	623	25.8	73	215.5	79.6%
8/30/2015	2,190	1,910	851	1,420	8.3	3,850	3,960	659	603	26.9	73	214.7	79.3%
8/31/2015	2,350	2,050	520	1,170	8.1	4,310	4,160	659	601	27.8	73	213.9	79.0%

Observed Average	2,484	760	1,322			5,341	925	1,122					
Mean Monthly	2,168	493	1,116			4,442	749	1,085			74		
% of Normal	114.6%	154.1%	118.4%			120.2%	123.6%	103.5%					

TODAY'S RESERVOIR OBSERVATIONS: 8/31/2015

*Lower Delaware Basin:		New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	213.9	79.0%
Vol. (BG)	Capacity	Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=	204.4	75.5%	
Blue Marsh	5.83 101.1%						BG Above Daily Storage Median =	9.5	4.67%	
Beltzville	13.51 100.2%	Neversink	0.0 30.0	85.9%	172	71	BG Above Drought Watch =	77.0		
		Pepacton	0.0 118.7	84.8%	500	90	BG Above Drought Warning =	97.0		
Blue Marsh	0 Merrill Creek		0.0 65.2	68.1%	0	389	BG Above Drought =	117.0		
Beltzville	0 Wallenpaupack		0.0 47.6	96.0%	606	0	BG Below One Year Ago =	12.1		

*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:

- 1. The Salt Front is the estimated location of the 7-day average chloride concentration of 250 milligrams/liter (mg/L).
- 2. 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.
- 3. Directed releases from Lake Wallenpaupack are estimated values supplied by PPL.
- 4. 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.
- 5. cfs=Cubic Feet per Second; DO= Dissolved Oxygen; MG= Million Gallons; BG=Billion Gallons
- 6. 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.
- 7. 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.
- 8. 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).
- 9. 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.
- 10. NYC Storage Median based on beginning of month values reported to the Delaware River Master from June 1967 - May 2013.
- 11. Drought Watch, Warning and Drought are defined by Figure 1 of Article 2 in the Delaware River Basin Water Code 18 CFR Part 410.