

## Delaware River Flow and Storage Data - May 2016 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
5/1/2016	2,700	2,850	662	1,320		5,310	5,390	1,180	1,640		71	265.6	98.1%
5/2/2016	3,140	3,380	720	1,430		5,590	5,640	1,250	1,790		71	265.9	98.2%
5/3/2016	5,490	5,990	1,120	1,920		6,960	7,690	2,210	4,110		71	266.6	98.4%
5/4/2016	7,750	7,680	1,760	2,850		9,710	11,200	1,930	3,920		71	267.0	98.6%
5/5/2016	7,300	7,470	1,900	2,840		14,200	14,100	1,690	2,980		71	267.4	98.7%
5/6/2016	6,510	6,940	1,740	3,020		13,400	14,000	2,820	5,460		71	267.8	98.9%
5/7/2016	9,070	9,340	1,180	2,570		14,900	15,100	3,390	10,300		71	268.8	99.3%
5/8/2016	9,280	9,660	1,220	2,300		15,300	15,800	2,520	5,120		71	269.7	99.6%
5/9/2016	7,940	8,220	1,410	2,540		15,800	16,000	2,560	3,920		71	270.3	99.8%
5/10/2016	6,690	7,380	1,350	2,520		13,900	14,000	2,320	3,440		71	270.7	99.9%
5/11/2016	6,450	6,150	1,180	2,270		13,300	12,900	2,170	3,090		70	271.0	100.0%
5/12/2016	5,990	5,580	1,070	2,090		12,100	11,400	1,920	2,820		70	271.2	100.1%
5/13/2016	5,510	5,250	1,090	2,070		10,700	10,300	1,780	2,530		70	271.2	100.1%
5/14/2016	5,270	6,040	1,480	2,340		10,600	10,300	1,840	2,480		69	271.8	100.3%
5/15/2016	6,220	6,300	1,030	2,250		10,700	10,900	1,720	2,440		69	271.9	100.4%
5/16/2016	5,820	6,100	982	1,880		10,900	10,700	1,590	2,180		69	271.7	100.3%
5/17/2016	5,990	5,810	938	1,810		10,200	10,100	1,390	1,980		69	271.4	100.2%
5/18/2016	5,570	5,090	839	1,690		10,200	9,810	1,360	1,820		69	271.0	100.1%
5/19/2016	4,660	4,510	844	1,600		9,550	9,130	1,360	1,800		70	270.5	99.9%
5/20/2016	4,410	4,290	792	1,520		8,120	8,100	1,300	1,730		70	270.1	99.7%
5/21/2016	3,930	4,030	957	1,480		7,580	7,660	1,200	1,680		70	269.8	99.6%
5/22/2016	3,330	3,340	744	1,660		7,870	7,790	1,370	2,310		70	269.5	99.5%
5/23/2016	3,080	3,030	716	1,420		7,290	7,110	1,260	2,000		71	269.2	99.4%
5/24/2016	3,270	3,030	740	1,410		6,370	6,340	1,280	1,850		71	269.1	99.4%
5/25/2016	2,680	2,730	698	1,360		6,020	5,990	1,250	1,710		71	269.1	99.4%
5/26/2016	3,180	2,890	648	1,260		5,680	5,630	1,080	1,570		71	268.7	99.2%
5/27/2016	3,180	2,850	626	1,300		5,310	5,630	1,010	1,390		71	268.3	99.1%
5/28/2016	2,390	2,500	795	1,180		5,350	5,520	1,020	1,300		71	267.8	98.9%
5/29/2016	2,990	2,830	829	1,380		5,030	5,270	954	1,260		71	267.3	98.7%
5/30/2016	3,080	2,860	694	2,600		6,020	6,180	1,500	1,670		71	266.7	98.5%
5/31/2016	3,180	2,910	675	1,980		9,600	8,560	1,720	2,100		71	266.2	98.3%

Observed Average	5,065	1,014	1,931			9,492	1,676	2,722		68		
Mean Monthly	5,791	1,282	2,664			11,675	1,781	2,613				
% of Normal	87.5%	79.1%	72.5%			81.3%	94.1%	104.2%				

TODAY'S RESERVOIR OBSERVATIONS: 5/31/2016															
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=				266.2	98.3%	
	Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=				269.5	99.5%	
Blue Marsh	5.95	103.3%		0.00	34.3	98.2%	229	0	BG Below Daily Storage Median =				3.31	-1.23%	
Beltzville	13.85	102.7%		0.00					BG Above Drought Watch =				76.2		
Directed Releases from Basin Reservoirs (cfs):				Pepacton	0.00	138.4	98.9%	449	0	BG Above Drought Warning =				96.2	
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.00	93.4	97.6%	299	0	BG Above Drought =				116.2	
Beltzville	0	Wallenpaupack	0	Rondout	0.00	48.8	98.4%	615	0	BG Above One Year Ago =				9.3	

\*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](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

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.