

Delaware River Flow and Storage Data - January 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
1/1/2016	8,000	8,270	1,660	3,700		17,200	17,200	3,760	5,030		70	214.6	79.2%
1/2/2016	7,780	7,600	1,590	3,360		16,900	16,700	3,030	3,990		70	216.0	79.7%
1/3/2016	6,810	6,720	1,530	3,140		15,600	15,300	2,610	3,320		70	217.2	80.2%
1/4/2016	6,220	6,290	1,470	2,990		14,000	13,900	2,340	2,950		70	218.2	80.6%
1/5/2016	5,760	5,750	1,360	2,830		12,800	12,700	2,030	2,610		71	218.9	80.8%
1/6/2016	5,160	4,860	Ice	2,340		11,600	11,400	1,690	2,160		71	219.2	80.9%
1/7/2016	4,690	4,600	Ice	2,130		10,100	9,690	1,570	1,950		72	219.3	81.0%
1/8/2016	4,170	4,440	1,020	2,160		9,660	9,500	1,560	1,890		72	219.5	81.0%
1/9/2016	4,490	4,540	1,040	2,120		9,600	9,360	1,530	1,870		72	219.8	81.2%
1/10/2016	4,360	5,340	2,080	4,620		11,500	13,700	3,590	5,120		73	220.4	81.4%
1/11/2016	17,200	16,000	3,670	6,510		21,500	21,000	5,870	8,030		73	222.8	82.3%
1/12/2016	12,500	12,400	3,340	6,110		29,200	28,100	4,320	5,650		73	224.3	82.8%
1/13/2016	9,630	9,530	2,100	4,700		23,100	22,500	3,330	4,210		72	224.8	83.0%
1/14/2016	9,070	8,770	2,170	4,050		18,400	17,800	2,720	3,450		72	225.1	83.1%
1/15/2016	7,120	7,360	1,850	3,600		16,900	16,300	2,420	3,030		72	225.8	83.4%
1/16/2016	7,180	7,290	1,500	3,330		15,100	15,100	2,500	2,990		71	226.4	83.6%
1/17/2016	7,590	7,720	1,450	3,060		14,900	14,900	2,470	3,200		71	227.3	83.9%
1/18/2016	7,120	7,260	1,350	2,770		14,500	14,500	2,060	2,820		70	227.9	84.1%
1/19/2016	7,120	6,750	1,320	2,390		13,500	13,100	1,720	2,270		70	228.0	84.2%
1/20/2016	5,760	5,900	Ice	2,560		12,000	11,800	Ice	1,930		70	228.1	84.2%
1/21/2016	5,190	5,150	1,330	2,480		12,100	11,300	1,700	2,070		70	228.5	84.4%
1/22/2016	4,850	4,810	1,130	2,210		12,100	10,700	1,560	1,920		70	228.4	84.3%
1/23/2016	4,050	4,260	1,020	1,970		10,400	10,300	1,530	1,660		70	228.1	84.2%
1/24/2016	4,790	4,340	1,020	1,940		Ice	Ice	1,250	1,210		71	227.8	84.1%
1/25/2016	4,790	4,460	953	2,120		Ice	Ice	1,700	1,770		72	227.6	84.0%
1/26/2016	4,900	4,350	871	1,950		Ice	Ice	1,600	2,190		72	227.4	84.0%
1/27/2016	4,360	4,140	937	1,880		Ice	Ice	1,520	2,400		72	227.2	83.9%
1/28/2016	4,020	3,850	910	1,780		10,600	10,200	1,340	2,190		73	227.0	83.8%
1/29/2016	4,240	3,850	837	1,730		8,900	8,750	1,260	1,860		73	226.8	83.7%
1/30/2016	3,900	3,590	779	1,610		8,230	8,160	1,210	1,680		73	226.5	83.6%
1/31/2016	2,930	2,910	758	1,540		7,820	7,690	1,180	1,630		73	226.2	83.5%

Observed Average	6,229	1,466	2,893		13,765	2,232	2,873		69		
Mean Monthly	5,078	1,271	2,779		14,005	1,829	2,744				
% of Normal	122.7%	115.4%	104.1%		98.3%	122.1%	104.7%				

TODAY'S RESERVOIR OBSERVATIONS: 1/31/2016												
*Lower Delaware Basin:		New York City 24-hr, as of 8 am:										
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage (BG)=		226.2	83.5%
Blue Marsh	4.44	100.1%		(inches)	(BG)	(%)	(MG)	(MG)	NYC Daily Storage Median (BG)=		227.8	84.1%
Beltzville	13.51	100.1%		Neversink	31.6	90.3%	0	0	BG Below Daily Storage Median =		1.6	-0.72%
				Pepacton	114.0	81.4%	251	0	BG Above Drought Watch =		83.8	
				Directed Releases from Basin Reservoirs (cfs):					BG Above Drought Warning =		103.8	
Blue Marsh	0	Merrill Creek	0	Cannonsville	80.6	84.2%	300	0	BG Above Drought =		123.8	
Beltzville	0	Wallenpaupack	0	Rondout	46.5	93.7%	609	0	BG Above One Year Ago =		38.0	

*Percent capacity in Blue Marsh Reservoir is based upon the normal winter pool storage of 4.43 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/r>
 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.