

Delaware River Flow and Storage Data - February 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
2/1/2016	2,850	2,950	778	1,610		6,780	6,820	1,260	1,830		73	225.8	83.4%
2/2/2016	2,890	3,060	839	1,740		7,100	7,100	1,510	2,770		73	225.5	83.3%
2/3/2016	2,830	3,370	1,210	3,070		7,730	9,820	3,580	4,940		73	225.0	83.1%
2/4/2016	4,070	4,910	2,490	7,280		27,500	27,900	11,400	22,800		73	225.6	83.3%
2/5/2016	5,820	5,560	2,430	6,930		25,200	24,700	10,300	16,100		73	226.0	83.4%
2/6/2016	4,690	4,600	1,730	4,910		20,400	19,400	7,600	10,600		73	226.2	83.5%
2/7/2016	4,020	4,070	1,640	4,200		15,800	15,300	5,880	7,710		73	226.5	83.6%
2/8/2016	3,760	3,960	1,560	3,880		13,500	13,300	4,890	6,320		73	226.8	83.8%
2/9/2016	4,290	4,350	1,250	3,510		12,500	12,400	3,990	5,320		73	226.9	83.8%
2/10/2016	4,190	4,240	1,210	3,080		12,100	11,900	3,500	4,760		73	226.9	83.8%
2/11/2016	4,190	4,270	1,200	2,850		11,400	11,100	2,910	4,110		73	226.9	83.8%
2/12/2016	3,950	4,050	1,100	2,550		10,600	10,300	2,390	3,370		72	226.7	83.7%
2/13/2016	3,810	3,940	886	2,200		9,270	9,340	Ice	3,000		72	226.4	83.6%
2/14/2016	4,590	4,140	800	1,810		9,220	Ice	Ice	Ice		72	225.8	83.4%
2/15/2016	4,240	4,360	797	1,850		Ice	Ice	-	Ice		72	225.0	83.1%
2/16/2016	3,900	4,590	-	4,400		Ice	Ice	-	7,240		72	225.4	83.2%
2/17/2016	12,700	13,800	4,540	9,210		27,200	25,300	7,910	13,900		72	229.7	84.8%
2/18/2016	12,400	12,100	4,200	7,430		30,800	29,300	6,100	8,450		72	231.9	85.6%
2/19/2016	8,730	8,580	2,640	5,220		24,300	22,900	4,550	6,080		72	233.1	86.1%
2/20/2016	7,490	7,370	1,910	4,190		17,900	17,600	3,580	4,760		72	234.1	86.4%
2/21/2016	7,490	7,340	1,840	3,910		15,800	15,800	3,400	4,350		72	235.0	86.8%
2/22/2016	7,000	7,120	1,840	3,730		15,700	15,400	3,240	4,270		72	235.8	87.1%
2/23/2016	6,450	6,520	2,040	3,820		14,600	14,800	3,120	4,070		71	236.7	87.4%
2/24/2016	5,930	6,100	2,310	5,360		15,000	16,500	4,900	6,340		71	237.6	87.7%
2/25/2016	17,300	26,700	6,710	17,500		39,600	47,400	18,100	29,300		71	242.9	89.7%
2/26/2016	34,000	31,800	5,510	11,900		67,700	66,300	12,800	18,000		70	250.3	92.4%
2/27/2016	21,400	20,500	3,940	8,100		52,000	49,100	9,350	11,400		69	253.2	93.5%
2/28/2016	16,500	16,100	3,570	6,890		36,800	35,600	7,430	8,890		68	254.9	94.1%
2/29/2016	14,400	14,200	3,010	6,190		30,600	29,900	6,260	7,470		66	256.0	94.5%

Observed Average	8,436	2,206	5,149			21,742	5,554	8,450		71		
Mean Monthly	5,058	1,035	2,734			11,740	2,255	3,859				
% of Normal	166.8%	213.3%	188.3%			185.2%	246.3%	219.0%				

TODAY'S RESERVOIR OBSERVATIONS: 2/29/2016													
*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)=					
Blue Marsh	5.35	120.7%						228.0			28.0	12.26%	
Beltzville	13.88	102.9%	0.07	34.7	99.2%	198	0	BG Above Drought Watch =			98.3		
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.07	128.5	91.8%	0	0	BG Above Drought Warning =			118.3	
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.03	92.8	97.0%	0	0	BG Above Drought =		138.3	
Beltzville	0	Wallenpaupack	0	Rondout	0.06	49.0	98.7%	413	0	BG Above One Year Ago =		81.3	

\*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](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.