

Delaware River Flow and Storage Data -December 2014 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
12/1/2014	2,180	2,180	432	943		4,640	4,650	970	1,530		78	154.5	57.0%
12/2/2014	2,200	2,250	491	1,100		4,870	4,900	1,180	1,730		77	154.8	57.2%
12/3/2014	2,700	2,720	663	1,620		5,350	5,880	1,760	2,730		76	155.0	57.2%
12/4/2014	2,890	2,960	795	1,740		7,010	6,990	1,910	3,500		76	155.4	57.4%
12/5/2014	3,230	3,190	875	1,720		7,050	6,970	1,720	2,720		75	155.7	57.5%
12/6/2014	3,140	3,310	823	1,900		7,100	7,750	1,850	2,860		75	155.9	57.6%
12/7/2014	6,470	7,090	1,250	2,360		12,400	11,300	2,590	5,460		75	157.0	58.0%
12/8/2014	7,840	7,360	1,750	2,720		11,100	12,400	2,450	3,930		76	157.8	58.3%
12/9/2014	5,750	5,830	1,540	3,200		15,700	16,900	2,510	4,640		76	158.5	58.5%
12/10/2014	8,410	8,710	1,370	2,880		17,200	16,600	2,500	5,530		76	159.7	59.0%
12/11/2014	8,650	8,230	1,350	2,620		15,800	16,200	1,990	3,640		75	160.5	59.3%
12/12/2014	6,560	6,330	1,240	2,380		15,600	15,100	1,810	2,930		75	161.2	59.5%
12/13/2014	5,300	5,180	1,020	2,020		12,700	12,400	1,570	2,530		75	161.7	59.7%
12/14/2014	4,520	4,440	1,000	1,870		10,900	10,600	1,450	2,220		75	162.3	59.9%
12/15/2014	4,050	4,200	993	1,790		9,660	9,460	1,370	2,010		75	162.9	60.1%
12/16/2014	4,320	4,100	913	1,700		8,790	8,710	1,340	1,900		74	163.1	60.2%
12/17/2014	4,350	4,000	997	1,760		8,590	8,500	1,490	1,970		74	163.4	60.3%
12/18/2014	4,500	4,390	1,150	1,770		8,280	8,220	1,550	2,130		74	164.3	60.7%
12/19/2014	5,140	4,740	1,260	1,870		8,120	8,150	1,360	2,000		74	165.0	60.9%
12/20/2014	4,600	4,140	1,060	1,750		8,690	8,650	1,280	1,780		73	165.4	61.1%
12/21/2014	3,620	3,560	984	1,610		8,180	8,070	1,240	1,700		73	166.1	61.3%
12/22/2014	3,300	3,270	873	1,470		7,290	7,230	1,200	1,650		73	166.7	61.6%
12/23/2014	3,230	3,220	909	1,510		6,730	6,740	1,190	1,630		73	167.1	61.7%
12/24/2014	3,480	3,630	1,020	2,040		6,730	7,510	1,950	2,380		73	167.7	61.9%
12/25/2014	5,700	7,720	1,480	3,020		11,100	11,400	3,030	6,440		73	170.3	62.9%
12/26/2014	12,200	11,400	1,400	2,770		12,200	13,900	2,880	4,490		73	173.7	64.1%
12/27/2014	8,900	8,540	1,360	2,550		17,800	17,100	2,460	3,620		73	176.1	65.0%
12/28/2014	6,990	6,790	1,580	2,560		14,700	14,300	2,200	3,130		72	178.2	65.8%
12/29/2014	6,220	6,510	1,610	2,510		12,800	12,500	2,060	2,830		72	180.2	66.6%
12/30/2014	6,050	5,940	1,690	2,560		11,500	11,500	2,250	2,780		72	181.8	67.1%
12/31/2014	5,270	5,150	1,350	2,230		11,500	11,100	2,040	2,730		72	182.7	67.5%

Observed Average	5,196	1,136	2,082			10,377	1,844	2,939				
Mean Monthly	5,050	1,878	3,228			12,925	2,427	3,612		69		
% of Normal	102.9%	60.5%	64.5%			80.3%	76.0%	81.4%				

TODAY'S RESERVOIR OBSERVATIONS: 12/31/2014											
*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	4.68	105.9%						224.7			83.0%
Beltzville	12.20	90.4%	Neversink 0.00	28.4	81.3%	0	0	BG Below Daily Storage Median =	42.0		-18.69%
			Pepacton 0.00	96.2	68.7%	200	0	BG Above Drought Watch =	56.9		
Directed Releases from Basin Reservoirs (cfs):								BG Above Drought Warning =	76.9		
Blue Marsh	0	Merrill Creek	0	Cannonsville 0.00	58.1	60.7%	301	0	BG Above Drought =	96.9	
Beltzville	0	Wallenpaupack	0	Rondout 0.00	45.9	92.5%	426	0	BG Below One Year Ago =	49.4	

\*Percent capacity in Blue Marsh Reservoir is based upon the normal winter pool storage of 4.42 BG.  
 Percent capacity for Beltzville Reservoir is based upon the year-round, normal pool storage of 13.49 BG.

**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 based on the 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. Reporting of the minimum dissolved oxygen for the Lehigh River at Glendon and the maximum temperature at the Schuylkill River at Vincent Dam will be discontinued at the end of September 2014. Reporting will begin again in June 2015.
  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.