

### Delaware River Flow and Storage Data - March 2017



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
3/1/2017	10,800	11,000	1,120	1,990		18,400	18,500	1,430	1,610		74	227.2	83.9%
3/2/2017	9,770	9,820	1,540	2,650		16,900	17,000	2,080	2,090		73	229.1	84.6%
3/3/2017	8,430	8,510	1,840	2,720		15,600	15,400	1,910	2,360		73	231.1	85.3%
3/4/2017	7,270	7,320	1,130	2,260		14,200	13,900	1,720	1,970		72	232.3	85.8%
3/5/2017	5,930	6,040	1,100	1,910		12,200	11,900	1,590	1,810		72	233.0	86.0%
3/6/2017	5,430	5,660	1,100	1,880		10,600	10,500	1,490	1,680		71	233.5	86.2%
3/7/2017	5,380	5,540	1,250	2,020		9,710	9,830	1,480	1,610		71	234.1	86.4%
3/8/2017	5,620	5,950	1,340	2,210		10,300	10,100	1,590	1,710		71	234.7	86.7%
3/9/2017	6,250	6,410	1,260	2,000		10,600	10,300	1,490	1,780		71	235.4	86.9%
3/10/2017	5,900	6,040	1,300	2,130		10,700	10,600	1,410	1,690		71	235.8	87.1%
3/11/2017	5,900	6,140	1,060	1,980		10,900	10,500	1,400	1,660		71	236.1	87.2%
3/12/2017	5,600	5,590	994	1,740		10,200	9,990	1,270	1,570		71	236.2	87.2%
3/13/2017	4,900	5,080	949	1,660		9,660	9,460	1,180	1,430		71	236.2	87.2%
3/14/2017	5,300	5,270	1,010	1,700		9,060	9,080	1,290	1,600		71	236.3	87.2%
3/15/2017	5,270	5,490	1,560	2,030		10,000	9,120	1,260	1,700		70	236.4	87.3%
3/16/2017	5,990	5,920	1,470	2,390		8,740	9,010	1,340	1,620		70	236.7	87.4%
3/17/2017	6,960	6,850	1,410	2,300		10,300	10,100	1,290	1,650		70	237.1	87.5%
3/18/2017	6,250	6,310	931	1,910		12,000	11,700	1,320	1,700		71	237.4	87.6%
3/19/2017	5,650	5,280	901	1,680		10,900	10,900	1,520	2,120		71	237.5	87.7%
3/20/2017	4,120	4,180	937	1,950		10,600	10,700	2,000	4,030		72	237.8	87.8%
3/21/2017	4,050	4,280	1,010	2,420		10,600	10,900	2,550	5,080		73	237.9	87.8%
3/22/2017	4,460	4,900	1,420	3,580		13,100	13,400	3,790	5,550		73	237.7	87.8%
3/23/2017	5,380	5,760	1,450	3,400		13,500	13,300	3,940	5,190		73	236.9	87.5%
3/24/2017	5,490	5,600	1,420	3,130		12,700	13,000	3,170	4,220		74	235.9	87.1%
3/25/2017	5,740	5,890	1,190	2,880		12,600	12,600	2,890	3,700		74	235.1	86.8%
3/26/2017	6,840	7,200	1,510	3,050		12,400	12,700	2,830	3,460		74	234.4	86.5%
3/27/2017	8,270	8,890	2,070	3,480		14,500	15,000	3,050	3,530		74	234.6	86.6%
3/28/2017	14,000	14,900	3,820	4,860		17,800	19,600	3,410	4,520		74	236.9	87.5%
3/29/2017	21,500	22,600	5,460	6,500		29,600	31,000	3,350	5,440		74	240.9	88.9%
3/30/2017	26,600	26,000	5,970	6,760		37,500	38,200	2,820	4,070		74	245.9	90.8%
3/31/2017	21,200	23,200	5,890	8,840		40,900	43,600	5,090	7,020		74	249.4	92.1%

Observed Average	8,310	1,787	2,904			14,577	2,160	2,876		70		
Mean Monthly	8,820	1,768	3,835			18,220	2,838	4,596				
% of Normal	94.2%	101.1%	75.7%			80.0%	76.1%	62.6%				

TODAY'S RESERVOIR OBSERVATIONS: 3/31/2017											
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=		249.4	92.1%
	Vol. (BG)	Capacity	7-Day Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	259.5	95.8%	
Blue Marsh	5.77	100.1%	(inches)	(BG)	(%)	(MG)	(MG)	BG Below Daily Storage Median =	10.1	-3.89%	
Beltzville	13.49	100.0%	Neversink	1.72	32.2	92.3%	203	0	BG Above Drought Watch =	75.9	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	1.43	129.9	92.7%	202	0	BG Above Drought Warning =	91.9	
Blue Marsh	0	Merrill Creek	0	Cannonsville	1.35	87.3	91.2%	0	0	BG Above Drought =	115.9
Beltzville	0	Wallenpaupack	0	Rondout	1.79	47.4	95.6%	766	0	BG Above One Year Ago =	0.8

\*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=Billon Gallons
  - 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.
  - 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.
  - 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).
  - 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.
  - NYC Storage Median based on beginning of month values reported to the Delaware River Master from June 1967 - May 2013.
  - Drought Watch, Warning and Drought are defined by Figure 1 of Article 2 in the Delaware River Basin Water Code 18 CFR Part 410.