

Delaware River Flow and Storage Data -March 2015 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
3/1/2015	Ice	Ice	Ice	650		Ice	Ice	Ice	Ice		79	174.6	64.5%
3/2/2015	Ice	Ice	Ice	677		Ice	Ice	Ice	Ice		79	174.6	64.5%
3/3/2015	Ice	Ice	Ice	698		Ice	Ice	Ice	Ice		80	173.9	64.2%
3/4/2015	Ice	Ice	Ice	765		Ice	Ice	Ice	1,940		80	173.2	64.0%
3/5/2015	Ice	Ice	Ice	937		Ice	Ice	1,610	5,510		80	172.4	63.7%
3/6/2015	Ice	Ice	Ice	835		Ice	Ice	1,410	Ice		80	171.7	63.4%
3/7/2015	Ice	Ice	Ice	825		Ice	Ice	1,270	Ice		80	171.0	63.1%
3/8/2015	Ice	Ice	Ice	879		Ice	Ice	1,240	Ice		80	170.4	62.9%
3/9/2015	Ice	Ice	Ice	920		Ice	Ice	1,390	3,030		80	170.4	62.9%
3/10/2015	Ice	Ice	Ice	1,220		Ice	Ice	2,060	5,060		80	169.6	62.6%
3/11/2015	Ice	Ice	Ice	2,480		9,660	10,600	5,620	12,900		79	169.0	62.4%
3/12/2015	Ice	Ice	Ice	5,160		14,900	15,400	9,060	14,800		79	168.8	62.3%
3/13/2015	Ice	Ice	Ice	4,410		15,300	14,900	8,140	12,300		79	168.6	62.2%
3/14/2015	Ice	Ice	Ice	5,010		13,700	16,800	8,830	14,400		78	168.7	62.3%
3/15/2015	Ice	Ice	Ice	6,060		24,900	23,400	10,600	17,100		78	168.9	62.4%
3/16/2015	Ice	Ice	Ice	4,580		19,700	19,100	8,280	11,500		77	169.1	62.4%
3/17/2015	Ice	Ice	1,210	4,590		18,100	18,500	7,180	9,770		76	169.4	62.5%
3/18/2015	Ice	Ice	1,390	4,900		20,500	20,200	6,620	9,170		76	169.9	62.7%
3/19/2015	Ice	Ice	1,290	3,960		18,800	18,900	5,490	7,200		75	170.2	62.8%
3/20/2015	Ice	Ice	1,240	3,440		17,400	17,500	4,390	5,830		74	170.5	63.0%
3/21/2015	Ice	Ice	1,270	3,080		15,800	15,600	3,970	5,320		73	170.9	63.1%
3/22/2015	4,720	4,690	1,230	3,020		14,500	14,500	3,930	5,730		73	171.2	63.2%
3/23/2015	3,860	4,250	1,180	2,860		14,200	14,000	3,560	5,620		72	171.4	63.3%
3/24/2015	3,580	4,030	1,170	2,670		12,400	12,400	2,920	4,420		71	171.6	63.4%
3/25/2015	3,400	3,690	1,170	2,590		11,500	11,500	2,650	3,770		71	171.8	63.4%
3/26/2015	3,440	3,670	1,160	2,620		11,100	11,000	2,610	3,530		71	172.1	63.6%
3/27/2015	4,050	4,840	1,400	3,380		15,400	16,400	4,520	9,690		70	173.0	63.9%
3/28/2015	6,100	5,990	1,250	3,060		16,100	16,200	3,450	7,030		70	174.1	64.3%
3/29/2015	5,850	5,370	1,170	2,710		15,600	15,200	2,970	4,760		70	174.7	64.5%
3/30/2015	4,740	4,830	1,200	2,610		14,200	13,800	2,720	4,030		71	175.0	64.6%
3/31/2015	4,920	5,040	1,350	2,730		12,600	12,700	2,570	3,650		72	175.6	64.8%

Observed Average	4,640	1,245	2,720			15,648	4,410	7,522					
Mean Monthly	8,820	1,768	3,835			18,220	2,838	4,596			70		
% of Normal	52.6%	70.4%	70.9%			85.9%	155.4%	163.7%					

TODAY'S RESERVOIR OBSERVATIONS: 3/31/2015													
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:							NYC Daily Storage (BG)=		175.6	64.8%
	Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=	259.5	95.8%		
Blue Marsh	4.71	106.3%							BG Below Daily Storage Median =	84.0	-32.36%		
Beltzville	13.51	100.2%	Neversink	0.09	22.6	64.6%	0	0	BG Above Drought Watch =	2.0			
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.04	95.9	68.5%	0	0	BG Above Drought Warning =	22.0			
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.09	57.1	59.6%	280	0	BG Above Drought =	42.0		
Beltzville	0	Wallenpaupack	0	Rondout	0.06	46.5	93.7%	411	0	BG Below One Year Ago =	56.3		

*Percent capacity in Blue Marsh Reservoir is based upon the normal winter pool storage of 4.43 BG. Storage is being gradually increased to the 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.

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/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.