

Delaware River Flow and Storage Data - March 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
3/1/2016	12,900	12,500	2,200	5,000		27,100	26,200	5,440	6,580		63	256.5	94.7%
3/2/2016	9,920	9,900	2,080	4,530		24,000	22,900	4,780	5,990		57	256.8	94.8%
3/3/2016	8,570	8,670	1,840	4,040		19,600	19,300	3,120	4,850		51	256.7	94.8%
3/4/2016	7,650	7,870	1,590	3,500		17,200	17,100	2,730	3,770		59	256.3	94.6%
3/5/2016	7,210	7,320	1,450	3,120		15,500	15,500	2,550	3,550		64	255.7	94.4%
3/6/2016	6,600	6,570	1,380	2,960		14,400	14,300	2,340	3,280		67	255.0	94.1%
3/7/2016	6,130	6,260	1,340	2,840		13,400	13,200	2,200	3,060		68	254.2	93.9%
3/8/2016	5,850	6,110	1,290	2,810		12,400	12,500	2,190	2,950		69	253.6	93.6%
3/9/2016	6,250	6,040	1,210	2,660		12,300	12,200	2,080	2,880		69	253.0	93.4%
3/10/2016	5,850	5,810	1,150	2,490		12,200	11,800	2,000	2,710		69	252.6	93.3%
3/11/2016	5,760	5,850	1,230	2,450		11,400	11,200	1,910	2,550		69	252.7	93.3%
3/12/2016	6,450	6,380	1,030	2,270		11,300	11,100	1,730	2,410		69	252.9	93.4%
3/13/2016	5,540	5,450	1,010	2,100		11,600	11,400	1,660	2,230		69	253.0	93.4%
3/14/2016	4,870	5,060	1,010	2,210		11,200	11,100	1,890	3,140		68	253.1	93.4%
3/15/2016	5,380	5,420	1,060	2,260		10,900	10,900	1,830	3,470		69	253.1	93.5%
3/16/2016	5,270	5,340	1,030	2,120		11,100	11,000	1,670	2,770		68	253.0	93.4%
3/17/2016	5,510	5,510	1,020	2,010		10,900	10,700	1,510	2,420		68	252.8	93.3%
3/18/2016	5,510	5,440	991	1,980		10,700	10,400	1,440	2,230		69	252.4	93.2%
3/19/2016	5,320	5,220	907	1,870		10,600	10,400	1,360	2,090		69	252.2	93.1%
3/20/2016	5,110	4,860	874	1,780		9,990	9,890	1,320	1,950		69	252.2	93.1%
3/21/2016	4,820	4,660	850	1,730		9,550	9,180	1,270	1,910		69	251.8	93.0%
3/22/2016	4,410	4,360	731	1,600		8,790	8,560	1,230	1,830		69	251.5	92.9%
3/23/2016	4,290	4,090	719	1,510		8,430	8,160	1,130	1,760		69	251.0	92.7%
3/24/2016	3,650	3,700	693	1,490		7,970	7,790	1,100	1,670		69	250.5	92.5%
3/25/2016	3,560	3,510	675	1,470		7,240	7,200	1,110	1,650		70	250.1	92.3%
3/26/2016	3,270	3,250	658	1,410		7,290	7,130	1,110	1,640		70	249.8	92.2%
3/27/2016	3,120	3,100	639	1,360		6,730	6,690	1,060	1,590		70	249.4	92.1%
3/28/2016	2,950	2,990	691	1,510		6,550	6,570	1,160	1,860		70	249.0	91.9%
3/29/2016	3,250	3,290	716	1,610		6,820	6,850	1,270	2,140		70	248.9	91.9%
3/30/2016	3,420	3,480	648	1,460		6,870	6,910	1,130	1,850		70	248.7	91.8%
3/31/2016	3,080	3,080	648	1,350		6,960	6,940	1,000	1,620		70	248.6	91.8%

Observed Average	5,519	1,076	2,306			11,454	1,881	2,723		70		
Mean Monthly	8,820	1,768	3,835			18,220	2,838	4,596				
% of Normal	62.6%	60.9%	60.1%			62.9%	66.3%	59.2%				

TODAY'S RESERVOIR OBSERVATIONS: 3/31/2016

*Lower Delaware Basin:		New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	248.6	91.8%
Vol. (BG)	Capacity	Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=	259.5	95.8%	
Blue Marsh	4.91 110.7%						BG Below Daily Storage Median =	10.9	-4.20%	
Beltzville	13.49 100.0%	Neversink	0.00 32.6	93.2%	0	0	BG Above Drought Watch =	75.1		
		Pepacton	0.00 128.5	91.8%	201	0	BG Above Drought Warning =	95.1		
Blue Marsh	0 Merrill Creek		0.00 87.5	91.5%	299	0	BG Above Drought =	115.1		
Beltzville	0 Wallenpaupack		0.00 47.2	95.1%	606	0	BG Above One Year Ago =	73.1		

*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.