

Delaware River Flow and Storage Data - April 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
4/1/2016	2,700	2,690	653	1,350		6,960	6,750	1,090	1,520		70	248.6	91.8%
4/2/2016	2,550	2,550	701	1,380		6,190	6,150	1,130	1,750		70	248.6	91.8%
4/3/2016	2,530	2,560	724	1,420		5,970	5,940	1,100	1,820		70	248.9	91.9%
4/4/2016	2,570	2,640	666	1,410		5,850	5,840	1,070	1,600		70	249.4	92.1%
4/5/2016	2,620	-	608	1,380		6,020	6,020	1,150	1,560		70	249.6	92.2%
4/6/2016	2,550	2,640	609	1,290		6,150	6,040	1,070	1,600		70	249.4	92.1%
4/7/2016	2,450	2,550	850	1,510		6,060	6,050	1,200	1,580		70	249.5	92.1%
4/8/2016	4,310	7,660	1,400	2,870		6,460	7,000	2,720	2,400		70	252.8	93.3%
4/9/2016	11,200	10,600	1,190	2,400		8,480	11,300	2,310	3,320		70	255.8	94.4%
4/10/2016	8,300	8,180	1,120	2,260		16,100	15,400	2,110	3,140		71	258.1	95.3%
4/11/2016	6,540	6,620	1,110	2,100		13,000	12,800	2,030	2,790		71	259.8	95.9%
4/12/2016	5,880	6,190	1,340	2,430		11,300	11,400	2,070	2,810		71	261.3	96.5%
4/13/2016	6,400	6,390	1,300	2,450		11,400	11,400	1,950	3,000		71	262.8	97.0%
4/14/2016	5,820	5,700	1,220	2,230		11,300	11,100	1,750	2,510		70	263.8	97.4%
4/15/2016	5,130	5,050	1,030	2,000		10,400	10,300	1,620	2,240		70	264.3	97.6%
4/16/2016	4,610	4,750	944	1,830		9,270	9,180	1,500	2,050		70	264.5	97.7%
4/17/2016	4,220	4,170	908	1,740		8,690	8,520	1,440	1,900		69	265.1	97.9%
4/18/2016	3,900	3,870	839	1,680		8,120	8,000	1,410	1,820		69	265.0	97.9%
4/19/2016	3,630	3,590	819	1,610		7,480	7,380	1,420	1,740		69	265.3	98.0%
4/20/2016	3,360	3,330	767	1,550		7,010	6,950	1,370	1,710		69	265.6	98.0%
4/21/2016	3,160	3,140	716	1,510		6,590	6,580	1,260	1,620		70	265.6	98.1%
4/22/2016	3,010	3,000	708	1,480		6,320	6,300	1,240	1,520		70	265.8	98.1%
4/23/2016	2,910	2,900	705	1,480		6,190	6,190	1,240	1,560		70	266.0	98.2%
4/24/2016	2,740	2,720	684	1,430		6,020	6,020	1,200	1,530		70	266.1	98.3%
4/25/2016	2,590	2,580	663	1,380		5,760	5,700	1,140	1,440		70	266.0	98.2%
4/26/2016	2,530	2,550	679	1,420		5,510	5,520	1,130	1,420		70	266.0	98.2%
4/27/2016	2,620	2,680	670	1,420		5,640	5,640	1,180	1,490		70	266.2	98.3%
4/28/2016	2,850	2,830	647	1,370		5,720	5,690	1,150	1,450		71	266.4	98.4%
4/29/2016	2,590	2,560	643	1,320		5,680	5,710	1,240	1,550		71	266.1	98.2%
4/30/2016	2,490	2,510	643	1,320		5,590	5,540	1,240	1,550		71	265.7	98.1%

Observed Average	4,110	852	1,701			7,747	1,451	1,933		67		
Mean Monthly	10,660	1,753	3,648			20,140	2,648	3,968				
% of Normal	38.6%	48.6%	46.6%			38.5%	54.8%	48.7%				

TODAY'S RESERVOIR OBSERVATIONS: 4/30/2016															
*Lower Delaware Basin:			New York City 24-hr, as of 8 am:					NYC Daily Storage (BG)=					265.7	98.1%	
Blue Marsh	Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=				270.8	100.0%	
Beltzville	5.75	99.9%		0.08	34.4	98.6%	0	0	BG Below Daily Storage Median =				5.1	-1.88%	
	13.49	100.0%							BG Above Drought Watch =				76.2		
Directed Releases from Basin Reservoirs (cfs):				Pepacton	0.06	138.4	98.9%	0	0	BG Above Drought Warning =				96.2	
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.15	92.8	97.0%	299	0	BG Above Drought =				116.2	
Beltzville	0	Wallenpaupack	0	Rondout	0.00	48.3	97.3%	411	0	BG Above One Year Ago =				0.4	

*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
 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.