

Delaware River Flow and Storage Data -May 2014 Summary



DAY	Delaware at Montague		Lehigh River			Delaware at Trenton		Schuylkill River			Salt Front	New York City	
	Flow (cfs)		Flow (cfs)		DO (mg/l)	Flow (cfs)		Flow (cfs)		Temp (C)		RM	Delaware River Basin Storage
	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	(BG)		Capacity
5/1/2014	14,400	15,700	3,740	18,900		78,000	74,900	21,900	66,400		66	267.7	98.8%
5/2/2014	16,600	15,500	3,050	10,400		59,600	55,700	13,900	24,000		65	268.8	99.2%
5/3/2014	10,400	10,400	4,060	8,700		42,000	40,300	9,320	14,300		63	269.4	99.5%
5/4/2014	8,450	8,560	3,100	6,970		31,700	30,500	7,530	10,500		62	270.1	99.7%
5/5/2014	7,420	7,540	2,730	6,080		25,500	24,900	6,320	8,530		60	270.5	99.9%
5/6/2014	7,080	6,720	2,130	4,690		21,900	21,200	4,910	6,950		57	270.7	99.9%
5/7/2014	6,290	6,250	1,950	3,950		18,700	18,200	3,900	5,410		54	270.7	99.9%
5/8/2014	5,660	5,680	1,760	3,630		16,400	16,500	3,440	4,710		58	270.8	100.0%
5/9/2014	5,710	5,890	1,690	3,390		15,600	15,600	3,160	4,310		62	271.0	100.0%
5/10/2014	6,320	6,720	1,650	3,150		14,500	14,800	2,920	4,000		64	271.1	100.1%
5/11/2014	5,790	6,180	1,410	3,040		15,600	15,400	2,920	4,200		65	271.2	100.1%
5/12/2014	5,790	6,020	1,170	2,590		14,100	13,800	2,620	3,740		66	271.2	100.1%
5/13/2014	5,900	5,510	1,230	2,590		12,900	12,900	2,420	3,330		67	270.8	100.0%
5/14/2014	5,310	5,190	1,200	2,470		12,600	12,300	2,260	3,070		68	270.5	99.9%
5/15/2014	5,330	5,130	1,100	2,310		11,500	11,300	2,210	2,830		68	270.2	99.8%
5/16/2014	5,390	6,460	3,430	4,590		11,500	13,100	4,090	9,260		68	269.8	99.6%
5/17/2014	41,500	36,100	4,800	7,740		37,800	38,900	8,010	16,700		68	275.9	101.9%
5/18/2014	30,100	28,600	5,890	7,520		61,100	57,900	5,310	8,040		68	277.0	102.3%
5/19/2014	20,500	20,000	4,820	7,060		45,900	43,700	4,210	5,900		67	276.1	101.9%
5/20/2014	15,300	15,400	2,590	4,670		35,200	33,100	3,390	4,790		66	275.3	101.6%
5/21/2014	13,300	13,100	2,460	4,130		26,300	26,100	2,980	4,030		65	274.5	101.3%
5/22/2014	11,300	11,400	2,070	4,690		25,800	25,600	3,200	3,990		63	273.8	101.1%
5/23/2014	11,400	11,400	1,990	4,050		30,900	27,300	4,200	6,130		60	273.6	101.0%
5/24/2014	8,680	8,770	1,930	3,640		23,100	22,700	3,240	4,690		58	273.2	100.9%
5/25/2014	7,450	7,460	1,950	3,410		18,700	18,500	2,840	3,830		57	273.0	100.8%
5/26/2014	6,580	6,540	1,770	3,220		16,300	16,100	2,610	3,400		57	272.6	100.6%
5/27/2014	5,710	5,870	1,440	2,850		14,700	14,300	2,460	3,240		58	272.2	100.5%
5/28/2014	5,390	5,590	1,300	2,700		12,900	12,800	2,950	4,760		59	271.7	100.3%
5/29/2014	5,180	5,040	1,280	2,570		12,300	12,000	2,780	4,420		61	271.1	100.1%
5/30/2014	4,920	5,040	1,100	2,330		11,700	11,200	2,250	3,360		62	270.5	99.9%
5/31/2014	3,900	3,800	981	2,100		10,500	10,400	2,040	2,830		63	270.1	99.7%

Observed Average	9,921	2,315	4,843			24,581	4,719	8,247				
Mean monthly	5,791	1,282	2,664			11,675	1,781	2,613			68	
% of Normal	171.3%	180.6%	181.8%			210.5%	265.0%	315.7%				

TODAY'S RESERVOIR OBSERVATIONS: 5/31/2014												
Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=		270.1	99.7%
	Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=	269.5	99.5%	
*Blue Marsh	5.78	100.4%		0.01	34.9	99.7%	64	0	BG Above Daily Storage Median =	0.6	0.23%	
Beltzville	13.90	100.2%		0.00	139.8	99.9%	307	0	BG Above Drought Watch =	80.1		
Directed Releases from Basin Reservoirs (cfs):				0.00	139.8	99.9%	307	0	BG Above Drought Warning =	100.1		
Blue Marsh	0	Merrill Creek	0	Cannonville	0.00	95.4	99.7%	302	0	BG Above Drought =	120.1	
Beltzville	0	Wallenpaupack	0	Rondout	0.06	49.3	99.3%	699	0	BG Below One Year Ago =	6.1	

*Percent capacity in Blue Marsh reservoir is based upon the normal summer pool storage of 5.75 BG. Percent capacity for Beltzville Reservoir is based upon the year-round, normal pool storage of 13.88 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 2013. Reporting will begin again in June 2014.
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.