

Delaware River Flow and Storage Data - July 2013



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)		Delaware River Basin Storage	
	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity
7/1/2013	15,600	16,200	1,820	4,050	8.2	19,500	27,800	3,330	7,770	24.1	66	270.4	99.9%
7/2/2013	19,300	20,000	3,050	8,020	8.4	33,200	34,800	5,230	7,400	22.3	66	271.1	100.1%
7/3/2013	18,300	17,700	4,100	7,790	8.9	40,700	39,100	4,300	5,710	22.3	65	271.6	100.3%
7/4/2013	14,100	13,700	3,450	6,610	8.9	33,500	32,000	3,030	4,240	23.6	63	271.1	100.1%
7/5/2013	11,400	11,100	2,160	4,590	8.6	26,200	25,000	2,370	3,280	25.5	61	270.2	99.8%
7/6/2013	7,940	8,260	1,660	3,200	8.2	20,500	19,600	1,930	2,660	26.7	59	269.1	99.4%
7/7/2013	6,840	6,820	1,580	2,930	7.9	15,600	15,200	1,710	2,210	27.4	56	268.2	99.0%
7/8/2013	6,120	6,080	1,560	2,900	8.1	13,600	13,300	1,550	2,220	26.8	54	267.2	98.7%
7/9/2013	5,310	5,600	1,130	2,740	8.1	12,300	12,100	1,390	1,890	26.2	55	266.7	98.5%
7/10/2013	5,250	5,150	1,000	2,330	8.3	11,300	11,100	1,390	1,680	26.4	58	265.9	98.2%
7/11/2013	4,540	4,780	1,010	2,140	8.2	10,600	10,300	1,350	1,670	26.1	60	265.3	98.0%
7/12/2013	4,200	4,320	957	2,040	8.3	9,950	9,750	1,260	1,670	24.8	62	264.6	97.7%
7/13/2013	3,920	4,030	856	1,940	8.5	9,780	9,530	2,220	3,550	23.2	64	263.9	97.4%
7/14/2013	3,560	3,670	810	1,750	8.3	10,100	9,810	1,530	3,550	26.1	64	263.2	97.2%
7/15/2013	3,850	3,870	765	1,610	7.9	9,120	8,520	1,230	2,140	27.8	65	262.4	96.9%
7/16/2013	3,760	3,810	733	1,560	7.5	7,470	7,480	1,250	1,600	28.4	65	261.5	96.6%
7/17/2013	3,560	3,640	674	1,480	7.6	7,470	7,260	1,100	1,480	29.2	66	260.6	96.2%
7/18/2013	3,420	3,700	643	1,320	7.4	6,940	6,790	973	1,260	30.6	66	259.4	95.8%
7/19/2013	3,740	3,850	626	1,270	7.4	6,430	6,370	912	1,070	31.1	67	258.2	95.3%
7/20/2013	3,690	3,670	810	1,250	7.4	6,520	6,420	904	954	30.2	68	257.1	94.9%
7/21/2013	3,210	2,990	828	1,420	7.4	6,250	6,400	864	945	29.7	68	256.3	94.6%
7/22/2013	2,760	2,690	600	1,460	7.4	6,160	6,280	966	988	28.1	69	255.3	94.3%
7/23/2013	2,680	2,800	660	3,070	7.7	7,660	8,940	5,800	8,410	26.6	69	254.6	94.0%
7/24/2013	3,020	3,140	631	2,020	7.8	9,890	9,320	4,960	6,560	24.0	69	254.1	93.8%
7/25/2013	3,270	3,160	577	1,440	8.0	7,080	6,930	2,720	3,900	22.9	69	253.2	93.5%
7/26/2013	2,760	2,680	559	1,300	8.4	6,160	6,160	1,710	2,460	24.6	70	252.0	93.0%
7/27/2013	2,350	2,330	745	1,210	8.2	5,690	5,600	1,320	1,730	24.7	70	250.8	92.6%
7/28/2013	2,490	2,570	909	2,030	8.2	5,030	5,130	1,560	1,530	24.0	70	249.6	92.2%
7/29/2013	2,760	2,800	1,020	2,730	8.4	8,900	8,500	1,850	3,090	24.8	70	248.9	91.9%
7/30/2013	3,210	3,090	706	2,120	8.6	8,900	8,400	1,730	2,080	24.5	70	248.1	91.6%
7/31/2013	2,860	2,660	615	1,550	8.5	6,890	6,820	1,400	1,740	23.8	70	247.3	91.3%

Observed Average	5,834	1,201	2,641			12,604	2,059	2,950					
Mean monthly	2,442	663	1,434			5,451	1,066	1,342			70		
% of Normal	239.0%	181.2%	184.2%			231.2%	193.2%	219.8%					

TODAY'S RESERVOIR OBSERVATIONS: 7/31/2013												
Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=		247.3	91.3%
Blue Marsh	Vol. (BG)	Capacity	Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=	232.4	85.8%		
Beltzville	13.88	100.0%	Neversink 0.00	32.4	92.8%	102	0	BG Above Daily Storage Median =	14.9	6.42%		
Directed Releases from Basin Reservoirs (cfs):			Pepacton 0.00	128.0	91.4%	320	0	BG Above Drought Watch =	83.4			
Blue Marsh	0.0	Merrill Creek 0.0	Cannonsville 0.00	86.9	90.8%	258	0	BG Above Drought Warning =	103.4			
Beltzville	0.0	Wallenpaupack 0.0	Rondout 0.00	46.6	93.9%	816	0	BG Above Drought =	123.4			
								BG Above One Year Ago =	25.2			

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 has been discontinued. Reporting will begin again in June 2013.
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.