

Delaware River Flow and Storage Data -July 2014 Summary



DAY	Delaware at Montague		Lehigh River			Delaware at Trenton		Schuylkill River			New York City			
	Flow (cfs)		Flow (cfs)		Min DO (mg/l)	Flow (cfs)		Flow (cfs)		Max Temp (C)	Salt Front		Delaware River Basin Storage	
	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity	
7/1/2014	4,240	4,390	549	1,320		8,320	7,960	1,140	1,410	28.4	69	269.5	99.5%	
7/2/2014	4,290	4,440	615	1,340	7.4	7,180	7,080	1,240	1,410	29.6	69	269.1	99.4%	
7/3/2014	11,400	7,620	751	1,480	7.6	8,580	8,140	2,250	2,660	27.4	69	269.2	99.4%	
7/4/2014	16,100	13,700	1,020	2,020	8.0	9,120	11,300	1,930	2,540	25.5	69	269.6	99.5%	
7/5/2014	13,600	12,900	1,290	2,120	8.5	19,400	19,200	1,830	2,650	24.8	69	269.9	99.6%	
7/6/2014	8,650	8,100	1,200	2,000	8.6	18,400	17,500	1,330	2,030	25.5	70	266.6	99.5%	
7/7/2014	6,370	6,060	887	1,820	8.3	13,300	12,600	1,180	1,560	27.1	70	269.1	99.4%	
7/8/2014	5,610	5,380	842	2,010	8.2	10,400	10,200	1,050	1,360	28.5	70	268.3	99.1%	
7/9/2014	5,500	5,690	1,070	1,910	8.2	9,780	9,430	1,080	1,270	27.6	70	267.8	98.9%	
7/10/2014	6,080	6,180	1,340	2,320	8.4	9,610	9,720	1,280	1,350	27.6	71	267.3	98.7%	
7/11/2014	4,970	5,240	1,090	2,120	8.4	11,100	10,700	1,120	1,470	27.7	71	266.5	98.4%	
7/12/2014	4,580	4,670	865	1,700	8.1	10,000	9,400	1,020	1,290	28.2	71	265.7	98.1%	
7/13/2014	4,120	4,310	727	1,530	7.8	8,480	8,130	966	1,120	27.2	71	264.7	97.7%	
7/14/2014	4,050	5,920	794	2,580	8.1	8,060	8,540	1,720	1,420	26.3	71	265.9	98.2%	
7/15/2014	10,200	10,200	1,080	2,660	8.0	13,000	12,400	3,020	3,570	24.9	71	266.2	98.3%	
7/16/2014	7,600	9,320	894	2,430	8.4	16,100	15,400	2,540	3,600	25.1	71	266.9	98.6%	
7/17/2014	11,900	11,100	806	2,210	8.6	13,000	13,700	1,770	2,820	25.6	71	266.9	98.5%	
7/18/2014	8,240	8,180	725	1,920	8.7	15,600	14,700	1,310	1,890	25.4	70	266.7	98.5%	
7/19/2014	6,620	6,620	910	1,610	8.6	12,300	11,800	1,180	1,510	25.1	70	266.5	98.4%	
7/20/2014	5,360	5,520	898	1,750	8.5	10,500	10,100	1,090	1,350	26.3	70	265.8	98.1%	
7/21/2014	4,790	4,990	678	1,660	8.4	8,950	8,780	1,030	1,240	26.6	70	265.0	97.9%	
7/22/2014	4,450	4,610	644	1,470	8.2	8,270	7,970	1,020	1,150	27.2	70	264.3	97.6%	
7/23/2014	4,400	4,400	646	1,430	7.9	7,560	7,290	1,010	1,130	28.5	70	263.2	97.2%	
7/24/2014	4,190	4,260	722	1,580	8.0	7,080	7,060	1,340	1,300	26.6	70	262.7	97.0%	
7/25/2014	4,650	4,680	605	1,350	8.1	6,990	6,810	1,260	1,640	26.7	70	261.9	96.7%	
7/26/2014	4,140	4,210	782	1,200	8.0	6,660	6,690	1,030	1,410	26.3	70	260.8	96.3%	
7/27/2014	3,690	3,660	779	1,400	7.8	6,610	6,550	1,020	1,190	27.7	70	259.8	95.9%	
7/28/2014	3,500	3,500	606	1,560	7.9	6,480	6,850	1,530	3,430	26.2	70	259.2	95.7%	
7/29/2014	3,460	3,440	557	1,230	7.9	6,210	6,130	1,370	2,110	24.5	70	258.3	95.4%	
7/30/2014	3,300	3,270	534	1,140	8.2	5,650	5,640	1,050	1,560	25.1	71	257.6	95.1%	
7/31/2014	3,030	3,100	521	1,050	8.1	5,230	5,220	928	1,200	26.1	71	256.4	94.7%	

Observed Average	6,118	820	1,739			9,774	1,375	1,795					
Mean monthly	2,442	663	1,434			5,451	1,066	1,342			70		
% of Normal	250.6%	123.7%	121.3%			179.3%	129.0%	133.7%					

TODAY'S RESERVOIR OBSERVATIONS: 7/31/2014															
Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=			256.4		94.7%	
	Vol. (BG)	Capacity		Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)		NYC Daily Storage Median (BG)=	232.4		85.8%		
*Blue Marsh	5.78	100.4%								BG Above Daily Storage Median =	24.0		10.34%		
Beltzville	13.88	100.0%	Neversink	0.00	34.5	98.9%	0	0		BG Above Drought Watch =	92.5				
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	132.8	94.9%	451	0		BG Above Drought Warning =	112.5				
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.00	89.1	93.1%	210	0	BG Above Drought =	132.5				
Beltzville	0	Wallenpaupack	0	Rondout	0.00	48.5	97.7%	612	0	BG Above One Year Ago =	9.1				

\*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](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.
  7. Minimum Dissolved Oxygen for the Lehigh River at Glendon for 7/1/2014 is currently unavailable.