

Delaware River Flow and Storage Data -January 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
1/1/2014	7,690	7,560	1,850	3,430		19,300	18,400	2,820	4,090		73	233.2	86.1%
1/2/2014	6,210	6,870	1,780	3,200		14,700	14,500	2,530	3,480		72	234.1	86.4%
1/3/2014	6,270	6,390	1,590	3,080		13,200	13,100	2,330	3,210		72	234.6	86.6%
1/4/2014	7,880	7,580	1,170	2,440		Ice	Ice	1,930	2,500		72	234.7	86.7%
1/5/2014	7,380	6,700	1,210	2,170		Ice	Ice	1,950	2,210		71	235.0	86.8%
1/6/2014	5,150	7,300	2,540	4,500		Ice	Ice	3,980	6,660		72	236.3	87.2%
1/7/2014	18,000	16,900	3,460	5,530		Ice	Ice	4,440	8,730		71	241.8	89.3%
1/8/2014	12,900	11,800	3,020	5,090		Ice	Ice	3,680	4,170		71	243.1	89.7%
1/9/2014	10,600	10,000	2,060	3,700		Ice	Ice	3,270	3,900		71	244.1	90.1%
1/10/2014	7,600	7,770	1,330	2,970		Ice	Ice	2,690	3,810		71	245.1	90.5%
1/11/2014	7,200	7,720	2,780	6,180		Ice	Ice	5,320	5,670		71	246.5	91.0%
1/12/2014	13,500	17,900	4,000	10,100		Ice	Ice	10,100	17,100		70	252.7	93.3%
1/13/2014	18,000	17,000	4,100	7,400		38,400	40,900	6,900	9,790		70	255.7	94.4%
1/14/2014	12,700	13,300	3,770	7,140		34,500	34,000	6,090	7,290		69	257.2	95.0%
1/15/2014	14,600	15,000	3,000	5,990		32,800	31,200	5,680	8,430		69	259.3	95.7%
1/16/2014	12,800	12,900	2,680	4,980		28,800	28,700	4,200	6,210		69	260.4	96.1%
1/17/2014	10,800	10,900	2,060	4,150		24,600	24,100	3,490	4,900		68	261.2	96.4%
1/18/2014	9,820	9,760	1,790	3,630		20,500	20,400	3,010	4,180		65	261.4	96.5%
1/19/2014	9,210	9,010	1,720	3,350		18,600	18,300	2,730	3,720		64	261.4	96.5%
1/20/2014	8,290	8,640	1,650	3,170		17,000	16,800	2,500	3,370		62	260.9	96.3%
1/21/2014	8,390	8,400	1,580	3,030		15,800	15,900	2,340	3,110		62	260.2	96.1%
1/22/2014	8,420	7,500	1,410	2,710		16,100	15,200	2,170	2,790		64	259.1	95.7%
1/23/2014	Ice	Ice	1,140	2,300		Ice	Ice	1,970	2,300		67	257.7	95.2%
1/24/2014	Ice	Ice	1,140	2,210		Ice	Ice	2,000	2,160		68	256.4	94.7%
1/25/2014	Ice	Ice	1,170	2,030		Ice	Ice	1,880	2,010		69	254.9	94.1%
1/26/2014	Ice	Ice	1,160	2,090		Ice	Ice	1,810	1,980		69	253.9	93.7%
1/27/2014	Ice	Ice	1,130	2,080		Ice	Ice	1,550	2,200		70	252.7	93.3%
1/28/2014	Ice	Ice	1,050	1,980		Ice	Ice	1,550	1,990		70	251.3	92.8%
1/29/2014	Ice	Ice	904	1,780		Ice	Ice	1,420	1,830		70	249.9	92.3%
1/30/2014	Ice	Ice	889	1,670		Ice	Ice	1,380	1,530		70	248.5	91.7%
1/31/2014	Ice	Ice	885	1,640		Ice	Ice	1,440	1,610		70	246.9	91.2%

Observed Average	7,319	1,936	3,733			9,403	3,198	4,417					
Mean monthly	5,078	1,271	2,779			14,005	1,829	2,744			69		
% of Normal	144.1%	152.4%	134.3%			67.1%	174.9%	161.0%					

TODAY'S RESERVOIR OBSERVATIONS: 1/31/2014													
Lower Delaware Basin:			New York City 24-hr, as of 8 am:							NYC Daily Storage (BG)=		246.9	91.2%
	Vol. (BG)	Capacity	Precip (inches)	Usable (BG)	Storage (%)	Draft (MG)	Directed Rel (MG)	NYC Daily Storage Median (BG)=		227.8	84.1%		
*Blue Marsh	4.45	100.5%						BG Above Daily Storage Median =		19.1	8.38%		
Beltzville	13.88	100.0%	Neversink	0.00	30.9	88.4%	210	0	BG Above Drought Watch =		104.6		
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	127.6	91.1%	400	0	BG Above Drought Warning =		124.6		
Blue Marsh	0	Merrill Creek	0	Cannonsville	0.00	88.4	92.4%	189	0	BG Above Drought =		144.6	
Beltzville	0	Wallenpaupack	0	Rondout	0.00	46.9	94.6%	812	0	BG Above One Year Ago =		16.4	

*Percent capacity is based upon winter pool storage.

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.
7. Flow measurements at the Delaware River at Trenton marked "Ice" are affected by the icy conditions in the river. Adjustment of data for ice effects will be available after a detailed analysis by the USGS.