Delaware River Flow and Storage Data - February 2014 Summary

Delaware River Basin Commission
DELAWARE • NEW JERSEY
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UNITED STATES OF AMERICA

	Delaware at Montague		Lehigh River			Delaware at Trenton		Schulkill River			Salt Front	New York City	
	Flow (cfs)		Flow (cfs)		DO (mg/l)	Flow (cfs)		Flow (cfs)		Temp (C)		Delaware River Basin Storage	
DAY	8:00 AM	Mean	Lehighton	Bethlehem	Glendon	8:00 AM	Mean	Pottstown	Philadelphia	Vincent Dam	RM	(BG)	Capacity
2/1/2014	Ice	Ice	909	1,510		Ice	Ice	1,260	1,770		71	245.6	90.7%
2/2/2014	Ice	Ice	864	1,520		Ice	Ice	1,250	1,790		71	244.8	90.4%
2/3/2014	Ice	Ice	864	1,570		Ice	Ice	1,370	1,990		71	244.0	90.1%
2/4/2014	Ice	Ice	839	1,530		Ice	Ice	1,440	2,330		71	243.0	89.7%
2/5/2014	Ice	Ice	750	1,700		Ice	Ice	-	5,350		72	242.4	89.5%
2/6/2014	Ice	Ice	767	1,780		Ice	Ice	2,180	7,810		72	242.1	89.4%
2/7/2014	Ice	Ice	826	1,580		Ice	Ice	1,780	4,310		73	241.5	89.2%
2/8/2014	Ice	Ice	751	1,480		Ice	Ice	1,450	3,120		73	240.9	88.9%
2/9/2014	Ice	Ice	723	1,410		Ice	Ice	1,360	2,520		74	240.6	88.8%
2/10/2014	Ice	Ice	714	1,380		Ice	Ice	1,300	2,280		74	240.3	88.7%
2/11/2014	Ice	Ice	554	1,140		Ice	Ice	1,130	1,990		74	239.7	88.5%
2/12/2014	Ice	Ice	816	1,040		Ice	Ice	1,060	1,700		75	238.9	88.2%
2/13/2014	Ice	Ice	910	1,060		Ice	Ice	1,180	1,740		75	238.2	87.9%
2/14/2014	Ice	Ice	814	1,130		Ice	Ice	1,350	2,320		76	237.9	87.8%
2/15/2014	Ice	Ice	749	1,420		Ice	Ice	1,390	2,880		76	237.5	87.7%
2/16/2014	Ice	Ice	810	1,340		Ice	Ice	1,250	2,420		76	237.1	87.5%
2/17/2014	Ice	Ice	798	1,260		Ice	Ice	1,160	2,050		77	236.4	87.3%
2/18/2014	Ice	Ice	750	1,240		Ice	Ice	1,160	1,950		77	235.6	87.0%
2/19/2014	Ice	Ice	658	1,230		Ice	Ice	1,230	2,050		77	234.8	86.7%
2/20/2014	Ice	Ice	635	1,390		Ice	Ice	1,510	2,800		78	234.2	86.5%
2/21/2014	Ice	Ice	660	1,750		Ice	Ice	2,020	4,340		78	233.6	86.3%
2/22/2014	Ice	Ice	900	2,040		Ice	Ice	2,450	8,070		78	233.6	86.2%
2/23/2014	Ice	Ice	1,050	2,440		Ice	Ice	2,970	7,210		78	233.8	86.3%
2/24/2014	Ice	Ice	1,010	2,510		Ice	Ice	3,320	7,280		77	233.9	86.3%
2/25/2014	Ice	Ice	873	2,260		Ice	Ice	3,100	5,940		77	233.1	86.1%
2/26/2014	Ice	Ice	784	1,990		Ice	Ice	2,710	4,740		77	232.2	85.7%
2/27/2014	Ice	Ice	797	1,790		Ice	Ice	2,290	3,960		77	231.2	85.4%
2/28/2014	Ice	Ice	653	1,510		Ice	Ice	1,930	3,290		76	230.3	85.0%
Observed Average		na	794	1,571			na	1,664	3,571				
Mean monthly		5,058	1,035	2,734			11,740	2,255	3,859		71		
% of Normal		na	76.7%	57.5%			na	73.8%	92.5%				

TODAY'S RESERVOIR OBSERVATIONS: 2/28/2014

Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	230.3	85.0%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	228.0	84.2%
*Blue Marsh	4.42	99.8%		(inches)	(BG)	(%)	(MG)	(MG)	BG Above Daily Storage Median =	2.3	1.00%
Beltzville	13.74	99.0%	Neversink	0.00	27.0	77.4%	404	0	BG Above Drought Watch =	73.1	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	120.5	86.0%	400	0	BG Above Drought Warning =	93.1	
Blue Marsh 0	Merrill Creek	0	Cannonsville	0.00	82.8	86.5%	0	0	BG Above Drought =	113.1	
Beltzville 0	Wallenpaupack	0	Rondout	0.00	44.5	89.7%	693	0	BG Above One Year Ago =	1.7	

*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 calcuation 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.