Delaware River Flow and Storage Data -December 31, 2013

Delaware River Basin Commission
DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
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
12/1/2013	4,420	4,390	811	1,480		9,560	9,140	1,330	1,810		78	200.1	73.9%
12/2/2013	3,940	4,040	797	1,440		7,660	7,610	1,240	1,610		77	200.9	74.2%
12/3/2013	3,530	3,560	803	1,370		6,990	6,910	1,240	1,530		77	201.6	74.4%
12/4/2013	3,320	3,280	874	1,400		6,610	6,450	1,160	1,490		76	202.1	74.6%
12/5/2013	3,150	3,220	833	1,390		5,990	5,930	1,080	1,400		76	202.8	74.9%
12/6/2013	3,170	3,630	820	1,440		5,730	5,780	1,170	1,470		76	203.8	75.3%
12/7/2013	5,360	5,500	1,240	2,440		9,610	8,990	2,830	5,550		75	204.9	75.6%
12/8/2013	5,390	5,380	1,080	2,060		11,200	11,000	2,180	4,080		75	205.5	75.9%
12/9/2013	4,520	4,460	1,100	2,010		10,600	10,600	2,080	3,560		75	205.9	76.0%
12/10/2013	4,150	4,240	1,280	2,270		10,200	10,100	2,440	4,500		75	206.1	76.1%
12/11/2013	3,850	3,910	1,220	2,130		9,280	9,110	2,280	3,590		74	206.3	76.2%
12/12/2013	3,290	3,670	1,110	1,970		8,420	8,190	1,850	2,880		74	206.5	76.2%
12/13/2013	3,780	3,850	839	1,670		7,610	7,230	1,570	2,290		74	206.4	76.2%
12/14/2013	2,780	3,070	691	1,500		6,250	6,380	1,360	2,020		74	206.3	76.2%
12/15/2013	3,340	3,430	730	1,370		6,610	6,540	1,550	2,580		74	206.4	76.2%
12/16/2013	3,420	3,660	703	1,440		5,320	5,870	1,460	2,970		74	206.4	76.2%
12/17/2013	3,970	4,360	810	1,360		5,360	5,510	1,310	2,180		74	206.4	76.2%
12/18/2013	3,900	4,000	745	1,420		5,190	5,290	1,190	1,840		74	206.0	76.1%
12/19/2013	3,620	3,810	719	1,430		4,840	5,560	1,130	1,650		74	205.8	76.0%
12/20/2013	3,080	3,270	675	1,410		5,070	5,460	1,070	1,570		74	205.6	75.9%
12/21/2013	2,980	3,170	715	1,410		5,650	5,950	1,230	1,700		74	205.8	76.0%
12/22/2013	3,190	5,080	1,000	1,970		8,110	8,700	2,070	3,870		74	209.5	77.4%
12/23/2013	17,500	17,100	2,040	4,090		10,400	13,800	4,190	6,160		74	215.5	79.6%
12/24/2013	16,000	15,200	2,690	4,940		32,000	30,700	4,730	9,450		74	219.9	81.2%
12/25/2013	10,900	10,400	2,310	4,170		26,600	25,300	3,720	5,430		74	222.5	82.2%
12/26/2013	7,970	7,630	1,630	3,350		19,500	18,600	3,130	4,270		74	224.2	82.8%
12/27/2013	6,960	6,690	1,520	3,010		15,000	14,600	2,680	3,680		74	225.6	83.3%
12/28/2013	5,870	5,770	1,240	2,550		12,700	12,400	2,210	3,170		74	226.7	83.7%
12/29/2013	5,150	5,310	1,440	2,880		11,800	12,600	2,910	3,880		74	227.7	84.1%
12/30/2013	8,100	10,100	2,230	4,110		16,900	17,200	4,270	9,140		74	230.3	85.0%
12/31/2013	10,500	10,300	2,420	4,070		17,300	19,500	3,600	5,390		73	232.1	85.7%
Observed Average		5,661	1,197	2,244			10,548	2,137	3,442				
Mean monthly		5,050	1,878	3,228			12,925	2,427	3,612		69		
% of Normal		112.1%	63.8%	69.5%			81.6%	88.1%	95.3%				

TODAY'S RESERVOIR OBSERVATIONS: 12/31/2013

Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	232.1	85.7%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	224.7	83.0%
*Blue Marsh	4.42	99.8%		(inches)	(BG)	(%)	(MG)	(MG)	BG Above Daily Storage Median =	7.4	3.29%
Beltzville	13.96	100.6%	Neversink	0.00	32.8	93.9%	22	0	BG Above Drought Watch =	106.3	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.00	116.3	83.1%	5	0	BG Above Drought Warning =	126.3	
Blue Marsh 0	Merrill Creek	0	Cannonsville	0.00	83.0	86.7%	354	0	BG Above Drought =	146.3	
Beltzville 0	Wallenpaupack	0	Rondout	0.00	47.3	95.4%	696	0	BG Above One Year Ago =	9.0	

*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.