Delaware River Flow and Storage Data -April 2014 Summary

	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
4/1/2014	19,700	19,500	3,410	6,050		45,000	43,100	5,180	8,150		70	236.0	87.1%
4/2/2014	15,700	16,100	3,600	5,540		35,400	34,500	4,400	6,320		70	239.1	88.3%
4/3/2014	14,500	14,700	3,700	5,260		29,900	29,700	3,820	5,550		69	242.0	89.4%
4/4/2014	13,400	13,600	3,840	5,200		27,300	27,500	4,200	5,510		67	244.8	90.4%
4/5/2014	13,200	13,500	3,730	5,040		26,500	26,300	4,130	5,740		66	247.5	91.4%
4/6/2014	12,700	12,300	3,370	4,580		25,100	24,900	3,590	5,000		63	250.3	92.4%
4/7/2014	10,600	10,600	2,870	4,090		23,000	22,400	3,260	4,500		62	252.4	93.2%
4/8/2014	10,100	10,500	2,800	4,250		20,900	21,500	3,550	4,810		62	254.0	93.8%
4/9/2014	12,200	12,400	2,640	4,090		21,300	21,500	3,430	5,010		63	255.5	94.3%
4/10/2014	12,400	12,200	2,260	3,860		21,800	21,900	2,910	4,160		65	256.8	94.8%
4/11/2014	11,000	10,800	1,980	3,370		21,100	20,700	2,690	3,710		66	257.9	95.2%
4/12/2014	10,700	10,300	1,830	3,400		19,200	19,200	2,750	3,570		67	259.4	95.8%
4/13/2014	9,890	9,720	1,670	3,030		18,600	18,200	2,610	3,550		67	260.5	96.2%
4/14/2014	9,650	9,640	1,890	3,020		17,300	17,100	2,440	3,300		67	261.6	96.6%
4/15/2014	9,620	10,100	2,860	4,760		16,700	20,600	3,530	6,930		67	262.5	96.9%
4/16/2014	25,500	24,500	5,140	7,900		35,800	35,400	7,680	18,000		67	269.5	99.5%
4/17/2014	20,700	20,500	5,400	7,870		46,700	43,800	6,470	9,180		66	272.3	100.5%
4/18/2014	17,400	17,100	3,660	5,930		36,700	35,400	4,980	6,860		65	272.6	100.6%
4/19/2014	13,900	13,700	2,420	4,650		30,100	29,300	4,140	5,600		64	272.1	100.5%
4/20/2014	11,900	11,600	2,040	3,800		24,300	23,900	3,590	4,880		61	271.5	100.2%
4/21/2014	10,200	10,500	2,090	3,540		21,000	20,700	3,160	4,330		58	270.8	100.0%
4/22/2014	9,210	9,160	1,950	3,520		19,100	19,100	2,790	3,910		54	269.9	99.7%
4/23/2014	8,230	8,240	1,830	3,350		17,600	17,400	2,660	3,730		<54	269.6	99.5%
4/24/2014	7,660	7,770	1,600	3,000		16,100	15,800	2,410	3,400		<54	269.1	99.4%
4/25/2014	6,960	7,160	1,460	2,740		14,700	14,600	2,210	3,070		56	268.3	99.1%
4/26/2014	6,040	6,390	1,330	2,720		14,200	14,300	2,390	3,730		59	267.8	98.9%
4/27/2014	5,710	5,690	1,240	2,420		13,600	13,400	2,080	3,330		62	267.5	98.8%
4/28/2014	5,150	5,580	1,230	2,250		12,100	12,000	1,880	2,830		63	267.4	98.7%
4/29/2014	5,740	6,180	3,210	3,430		11,200	11,300	2,040	2,590		64	267.1	98.6%
4/30/2014	6,960	7,790	4,080	9,250		14,800	30,600	10,900	23,200		66	266.8	98.5%
Observed Average		11,594	2,704	4,397			23,537	3,729	5,815				
Mean monthly		10,660	1,753	3,648			20,140	2,648	3,968		67		
% of Normal		108.8%	154.3%	120.5%			116.9%	140.8%	146.5%				

TODAY'S RESERVOIR OBSERVATIONS: 4/30/2014

[1]Lower Delaware Basin:			New York City 24-hr, as of 8 am:						NYC Daily Storage (BG)=	266.8	98.5%
	Vol. (BG)	Capacity		Precip	Usable	Storage	Draft	Directed Rel	NYC Daily Storage Median (BG)=	270.8	100.0%
*Blue Marsh	5.39	93.6%		(inches)	(BG)	(%)	(MG)	(MG)	BG Below Daily Storage Median =	3.9	-1.46%
Beltzville	13.80	99.4%	Neversink	1.29	33.5	95.8%	0	0	BG Above Drought Watch =	77.4	
Directed Releases from Basin Reservoirs (cfs):			Pepacton	0.47	138.5	98.9%	25	0	BG Above Drought Warning =	97.4	
Blue Marsh 0	Merrill Creek	0	Cannonsville	0.35	94.9	99.2%	0	0	BG Above Drought =	117.4	
Beltzville 0	Wallenpaupack	0	Rondout	1.81	47.1	95.0%	607	0	BG Above One Year Ago =	0.8	

*Percent capacity in Blue Marsh reservoir is based upon the summer pool storage of 5.75 BG. Percent capacity for Beltzville Reservoir is based upon year-round pool storage of 13.88 BG.

[1] ***Capacity percentages are below 100% because the Army Corps of Engineers reduced the water volume in Beltzville and Blue Marsh reservoirs to create additional storage for runoff from the April 29-May 1 rain event.***

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.