

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>12 -06</u></p> <p>Date: 7 November 2012</p> <p>Prepared by: U.S. Army Engineer Division, Great Lakes and Ohio River, 550 Main St. #10032, Cincinnati, OH 45202-3222</p>
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RESERVOIR OPERATION AND SYSTEM STATUS FOR OCTOBER 2012

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 11.43 feet. Cairo stage was at 11.74 feet at the end of the month. The stage at Cairo fell as low as 6.92 feet on the 13th. Flood stage at Cairo is 40 feet. Navigation limitations along the Ohio River at Cairo due to low flow begin at 8.3 feet. Formal low flow coordination continued throughout October to improve navigation conditions and Olmsted construction along the lower Ohio River.

WEATHER – October was mainly cooler than normal, especially to the south of the Ohio River with wetter than conditions to the north and near normal precipitation to the south. The most significant precipitation events were from the 1st through the 3rd, the 5th through the 6th, the 17th through the 20th and the impacts of Hurricane Sandy in the eastern part of the basin from the 28th through the 1st of November. Precipitation departures in the basin ranged from 0.83 inches below normal at Louisville, KY to 2.15 inches above normal at Pittsburgh, PA. Temperature departures in the basin ranged from 2.3 degrees below normal at Indianapolis, IN to 0.8 degrees above normal at Pittsburgh, PA.

TEMPERATURE AND PRECIPITATION – OCTOBER 2012

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	53.5	0.8	4.44	2.15
Charleston, WV	55.2	-1.3	4.63	1.96
Columbus, OH	54.1	-0.9	4.06	1.45
Cincinnati, OH	53.7	-2.2	2.99	-0.31

Louisville, KY	57.3	-2.2	2.39	-0.83
Indianapolis, IN	52.7	-2.3	3.87	0.75
Evansville, IN	55.8	-1.8	2.90	-0.35
Nashville, TN	58.4	-1.9	3.83	0.79

STREAMFLOW – The monthly average flows ranged from a low of 87% of normal at Evansville, IN to a high of 124% of normal at Pittsburgh, PA.

Daily flows ranged from a low of 24% of normal at Evansville, IN to a high of 988% of normal at Pittsburgh, PA. These flows along the upper portion of the Ohio River were significantly influenced by the runoff from Hurricane Sandy.

The following table presents the flow data summary for the Ohio River Index Stations:

FLOW DATA – OCTOBER 2012

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	15,000	124	988	51
Huntington, WV	27,100	111	686	41
Cincinnati, OH	30,000	110	471	59
Louisville, KY	28,000	99	341	43
Evansville, IN	29,000	87	154	24
Paducah, KY	98,000	119	151	89

RESERVOIRS –October began with 1.3% utilization of the total system flood control storage and ended the month at 4.2%. System-wide augmentation storage availability began the month at 84.2% and was 86.0% by the end of the month.

The following table depicts storage change by tributary reservoir subsystem for October:

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	140,300
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	5,700
Twelvepole-Big Sandy-Little Sandy-Scioto	-13,300
Little Miami-Licking-Mill Creek-Great Miami	-30,100
Kentucky-Salt-Green-Wabash	-152,600
Cumberland	-171,200
TOTAL	-221,200

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