

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>09 – 10</u></p> <p>Date: 13 November 2009</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 2009

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 27.19 feet. The Cairo stage was at 38.32 feet at the end of the month. Flood stage at Cairo is 40 feet. A flood control operation was initiated on 30 October.

WEATHER – In large portions of Illinois, western Kentucky and in Indiana, October was much wetter than normal. Greater than normal precipitation occurred in all areas excluding portions of Pennsylvania, southern West Virginia and western Virginia. The rainfall event from the 26th to the 27th led to the initiation of a flood control operation. Other precipitation events occurred from Oct 1-2, 4-6, 8-11, 15-17, 22-24 and 30-31. Precipitation departures ranged from -0.02 inches below normal at Charleston, WV to +5.43 inches above normal at Evansville, IN.

October was colder than normal throughout the basin with the greatest departures from normal in the western two-thirds of the basin. Temperature departures in the basin ranged from -3.7 degrees below normal at Cincinnati, OH to -0.6 degrees below normal at Charleston, WV.

TEMPERATURE AND PRECIPITATION – OCTOBER 2009

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	50.7	-1.8	2.29	+0.04
Charleston, WV	54.5	-0.6	2.65	-0.02
Columbus, OH	51.6	-3.1	4.89	+2.58
Cincinnati, OH	52.0	-3.7	5.42	+2.46

Louisville, KY	55.0	-3.5	7.00	+4.21
Indianapolis, IN	51.6	-3.0	5.59	+2.83
Evansville, IN	53.7	-3.6	8.21	+5.43
Nashville, TN	56.9	-3.0	6.49	+3.62

STREAMFLOW – The monthly average flows ranged from a low of 167% of normal at Pittsburgh, PA to a high of 327% of normal at Paducah, KY. Daily flows ranged from a low of 80% of normal at Pittsburgh, PA to a high of 746% of normal at Evansville, IN. The following table presents the flow data summary for the Ohio River Index Stations:

FLOW DATA – OCTOBER 2009

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	20,000	167	357	80
Huntington, WV	43,000	175	298	110
Cincinnati, OH	55,000	202	386	110
Louisville, KY	72,000	254	635	85
Evansville, IN	104,000	314	746	118
Paducah, KY	271,000	327	507	185

RESERVOIRS – October began with 1.9% utilization of the total system flood control storage and ended the month at 4.7%. System-wide augmentation storage availability began the month at 94.6% and was at 92.0% 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	-67,100
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-37,700
Twelvepole-Big Sandy-Little Sandy-Scioto	-29,700
Little Miami-Licking-Mill Creek-Great Miami	-26,200
Kentucky-Salt-Green-Wabash	-87,500
Cumberland	-310,400
TOTAL	-558,600

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