

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>11 – 09</u></p> <p>Date: 7 October 2011</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 SEPTEMBER 2011

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 21.80 feet. Cairo stage was at 22.09 feet at the end of the month. Flood stage at Cairo is 40 feet.

WEATHER – September was wetter and mainly cooler than normal during a normally dry month in the Ohio Valley. Precipitation departures in the basin ranged from 0.62 inches above normal at Pittsburgh, PA to 5.15 inches above normal at Evansville, IN. The most significant contribution to above normal precipitation was from the remnants of Tropical Storm Lee between the 4th and the 6th and from a slow moving front between the 25th and 27th.

Temperature departures in the basin ranged from 2.4 degrees below normal at Nashville, TN and Louisville, KY to 1.3 degrees above normal at Pittsburgh, PA .

TEMPERATURE AND PRECIPITATION – SEPTEMBER 2011

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	65.4	+1.3	3.73	+0.62
Charleston, WV	67.9	+0.6	5.94	+2.69
Columbus, OH	65.6	-1.2	6.55	+3.71
Cincinnati, OH	65.4	-2.2	7.51	+4.88
Louisville, KY	68.6	-2.4	5.73	+2.68
Indianapolis, IN	66.0	-0.9	5.37	+2.25

Evansville, IN	67.5	-1.6	8.20	+5.15
Nashville, TN	69.1	-2.4	6.20	+2.79

STREAMFLOW – The monthly average flows ranged from a low of 149% of normal at Paducah, KY to a high of 233% of normal at Pittsburgh, PA.

Daily flows ranged from a low of 26% of normal at Evansville, IN to a high of 738% of normal at Pittsburgh, PA.

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

FLOW DATA – SEPTEMBER 2011

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	24,000	233	738	69
Huntington, WV	52,000	227	512	39
Cincinnati, OH	55,000	192	413	42
Louisville, KY	62,000	211	453	37
Evansville, IN	60,000	171	351	26
Paducah, KY	129,000	149	249	39

RESERVOIRS – September began with 0.6% utilization of the total system flood control storage and ended the month at 1.3%. System-wide augmentation storage availability began the month at 91.7% and was at 92.6% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-28,300
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-55,100
Twelvepole-Big Sandy-Little Sandy-Scioto	-800
Little Miami-Licking-Mill Creek-Great Miami	-12,100
Kentucky-Salt-Green-Wabash	-33,300
Cumberland	-21,800
TOTAL	-151,400

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