

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>10 – 09</u></p> <p>Date: 14 October 2010</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 2010

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 22.97 feet. Cairo fell to a low of 18.49 feet on the 19th. The Cairo stage was at 26.34 feet at the end of the month. Flood stage at Cairo is 40 feet.

WEATHER – The weather during September was warmer and drier than normal in most of the Ohio Valley. Dry weather in Indiana resulted in a drought being declared in much of the state. Drought conditions were also observed in southwestern Ohio and parts of Kentucky. Significant rainfall was observed in areas south of the Ohio River from the 10th through the 12th. Rainfall also impacted eastern areas on the 16th and during the 27th and 28th. Precipitation departures in the basin ranged from 0.06 inches above normal at Pittsburgh, PA to 2.93 inches below normal at Louisville, KY.

Temperature departures in the basin ranged from 1.7 degrees above normal at Pittsburgh, PA to 5.0 degrees above normal at Louisville, KY.

TEMPERATURE AND PRECIPITATION – SEPTEMBER 2010

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	65.7	+1.7	3.27	+0.06
Charleston, WV	69.2	+3.0	1.08	-2.37
Columbus, OH	68.4	+1.9	1.66	-1.26
Cincinnati, OH	70.1	+2.7	0.57	-2.25
Louisville, KY	75.1	+5.0	0.12	-2.93

Indianapolis, IN	70.4	+4.1	0.56	-2.32
Evansville, IN	72.1	+3.0	0.36	-2.63
Nashville, TN	73.4	+2.1	1.17	-2.42

STREAMFLOW – The monthly average flows ranged from a low of 49% of normal at Louisville, KY to a high of 69% of normal at Pittsburgh, PA.

Daily flows ranged from a low of 10% of normal at Louisville, KY to a high of 119% of normal at Pittsburgh, PA.

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

FLOW DATA – SEPTEMBER 2010

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	7,000	69	119	51
Huntington, WV	14,000	63	118	26
Cincinnati, OH	15,000	52	98	17
Louisville, KY	14,000	49	95	10
Evansville, IN	18,000	50	116	17
Paducah, KY	54,000	63	94	23

RESERVOIRS – September began with 1.1 % utilization of the total system flood control storage and ended the month at 0.8 %. System-wide augmentation storage availability began the month at 94.2% and was at 89.6% 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	-185,500
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-49,600
Twelvepole-Big Sandy-Little Sandy-Scioto	-16,200
Little Miami-Licking-Mill Creek-Great Miami	-21,000
Kentucky-Salt-Green-Wabash	-124,800
Cumberland	-367,400
TOTAL	-764,500

Prepared by:

Water Management Division

Great Lakes and Ohio River Division

U.S. Army Corps of Engineers