

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>10 – 08</u></p> <p>Date: 07 September 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 AUGUST 2010

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 31.84 feet. Cairo stage was at 23.02 feet at the end of the month. Flood stage at Cairo is 40 feet.

WEATHER – There was a major rainfall event from southern Kentucky and West Virginia into northern Tennessee from the 17th through the 19th, resulting in widespread flash flooding in the Cumberland, southern Kentucky and Green River basins. Rainfall amounts approached 10 inches in some areas northeast of Nashville, but rainfall amounts were generally 2 to 4 inches in the affected area. Other major rainfall events occurred on the 14th and 21st. Otherwise, precipitation in the Ohio Valley was generally below normal to much below normal near and north of the Ohio River. Precipitation departures in the basin ranged from 3.45 inches below normal at Indianapolis, IN to 3.71 inches above normal at Nashville, TN.

Temperatures continued their trend from July and were hotter than normal across the Ohio Valley. Temperature departures in the basin ranged from 2.8 degrees above normal at Columbus, OH to 6.0 degrees above normal at Indianapolis, IN.

TEMPERATURE AND PRECIPITATION – AUGUST 2010

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	74.4	+3.4	1.68	-1.70
Charleston, WV	77.1	+4.5	3.30	-0.81
Columbus, OH	76.3	+2.8	2.23	-1.49
Cincinnati, OH	78.1	+3.6	1.14	-2.65

Louisville, KY	82.8	+5.8	2.06	-1.35
Indianapolis, IN	79.5	+6.0	0.37	-3.45
Evansville, IN	81.3	+4.8	0.84	-2.30
Nashville, TN	81.9	+4.0	6.99	+3.71

STREAMFLOW – The monthly average flows ranged from a low of 66 % of normal at Evansville, IN to a high of 88% of normal at Huntington WV.

Daily flows ranged from a low of 28% of normal at Evansville, IN and Paducah, KY to a high of 170% of normal at Paducah, KY.

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

FLOW DATA – AUGUST 2010

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	9,000	73	107	49
Huntington, WV	27,000	88	164	39
Cincinnati, OH	27,000	76	130	39
Louisville, KY	29,000	70	161	31
Evansville, IN	31,000	66	119	28
Paducah, KY	93,000	84	170	28

RESERVOIRS – August began with 2.0 % utilization of the total system’s flood control storage and ended the month at 1.1 %. System-wide augmentation storage availability began the month at 97.8 % and was at 94.2 % by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-124,700
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-3,900
Twelvepole-Big Sandy-Little Sandy-Scioto	-7,100
Little Miami-Licking-Mill Creek-Great Miami	-3,200
Kentucky-Salt-Green-Wabash	+38,900
Cumberland	+83,400
TOTAL	-16,600

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Water Management Division

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