

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>10 – 07</u></p> <p>Date: 4 August 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 JULY 2010

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 37.85 feet, shortly reaching July’s peak stage of 37.93 feet later on the 1st. The Cairo stage held above 30 feet but below flood stage all month. Cairo stage was at 31.82 feet at the end of the month. Flood stage at Cairo is 40 feet.

WEATHER – July’s weather featured periods of showers and thunderstorms in the Ohio Valley combined with above normal temperatures. This resulted in variable precipitation departures throughout the basin. The most significant periods of showers and thunderstorms occurred from the 7th through the 9th, the 12th through the 13th and from the 17th through the 21st, when flash flooding impacted parts of eastern Kentucky and West Virginia.

Precipitation departures in the basin ranged from 1.33 inches below normal at Cincinnati, OH to 2.88 inches above normal at Charleston, WV.

Temperature departures in the basin ranged from 1.6 degrees above normal at Cincinnati, OH to 4.5 degrees above normal at Louisville, KY.

TEMPERATURE AND PRECIPITATION – JULY 2010

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	75.6	+3.0	2.86	-1.10
Charleston, WV	77.5	+ 3.6	7.74	+2.88
Columbus, OH	77.0	+ 1.9	6.01	+1.39
Cincinnati, OH	77.9	+ 1.6	2.42	-1.33

Louisville, KY	82.9	+ 4.5	5.21	+0.91
Indianapolis, IN	78.7	+ 3.3	2.87	-1.55
Evansville, IN	80.5	+ 1.9	3.51	-0.24
Nashville, TN	82.4	+ 3.3	5.86	+ 2.09

STREAMFLOW – The monthly average flows ranged from a low of 70 % of normal at Pittsburgh, PA to a high of 148 % of normal at Paducah, KY.

Daily flows ranged from a low of 22% of normal at Cincinnati, OH to a high of 284 % of normal also at Cincinnati, OH. The following table presents the flow data summary for the Ohio River Index Stations:

FLOW DATA – JULY 2010

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	10,000	70	119	40
Huntington, WV	32,000	90	138	39
Cincinnati, OH	45,000	101	284	22
Louisville, KY	50,000	94	260	36
Evansville, IN	55,000	89	233	39
Paducah, KY	206,000	148	215	75

RESERVOIRS – July began with 2.5 % utilization of the total system flood control storage and ended the month at 1.0 %. System-wide augmentation storage availability began the month at 99.1 % and was at 97.8 % by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-52,800
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-6,500
Twelvepole-Big Sandy-Little Sandy-Scioto	-1,400
Little Miami-Licking-Mill Creek-Great Miami	-8,700
Kentucky-Salt-Green-Wabash	-198,700
Cumberland	-252,600
TOTAL	-520,700

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Water Management Division

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