

	<p><b>WATER MANAGEMENT MONTHLY REPORT</b></p> <p><b><u>Information Exchange Bulletin</u></b></p> <p><b>Vol. No. <u>12 -06</u></b></p> <p><b>Date: 17 September 2012</b></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 2012**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 13.46 feet. Cairo stage was at 8.62 feet at the end of the month. The stage at Cairo fell as low as 7.15 feet on the 29<sup>th</sup>. Flood stage at Cairo is 40 feet. Navigation limitations begin at a Cairo stage of 8.3 feet. Formal low flow coordination continued throughout August to improve navigation conditions and Olmsted construction along the lower Ohio River.

**WEATHER** – August provided near normal temperatures with below normal precipitation except for parts of northern Ohio, central Indiana, parts of middle Tennessee and southern Illinois which received more showers and thunderstorms. The most significant event of heavy showers and thunderstorms was on the 16<sup>th</sup> and 17<sup>th</sup>. This caused drought to remain an issue for the western portions of the Ohio Valley. Precipitation departures in the basin ranged from 3.46 inches below normal at Charleston, WV to 3.38 inches above normal at Indianapolis, IN. Temperature departures in the basin ranged from 0.9 degrees below normal at Nashville, TN to 1.5 degrees above normal at Columbus, OH.

**TEMPERATURE AND PRECIPITATION – JUNE 2012**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	71.5	0.0	2.65	-0.83
Charleston, WV	74.5	+0.2	0.28R	-3.46
Columbus, OH	75.4	+1.5	1.80	-1.52
Cincinnati, OH	75.7	+0.9	1.12	-2.29
Louisville, KY	78.4	0.0	1.46	-1.87

Indianapolis, IN	74.9	+0.7	6.51	+3.38
Evansville, IN	76.7	0.0	4.10	+1.12
Nashville, TN	77.8	-0.9	3.70	+0.53

**R: Record minimum precipitation for August**

**STREAMFLOW** – The monthly average flows ranged from a low of 54% of normal at Evansville, IN to a high of 73% of normal at Pittsburgh, PA.

Daily flows ranged from a low of 11% of normal at Evansville, IN to a high of 138% of normal at Pittsburgh, PA.

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

**FLOW DATA – JULY 2012**

STATION	AVERAGE MONTHLY FLOW  CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	8,800	73	138	41
Huntington, WV	19,000	65	118	13
Cincinnati, OH	25,000	70	124	25
Louisville, KY	24,000	57	106	14
Evansville, IN	25,000	54	126	11
Paducah, KY	74,000	66	106	54

**RESERVOIRS** – July began with 0.8% utilization of the total system flood control storage and ended the month at 0.5%. System-wide augmentation storage availability began the month at 88.2% and was 84.4% by the end of the month.

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

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	-134,000
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-9,400
Twelvepole-Big Sandy-Little Sandy-Scioto	-14,600
Little Miami-Licking-Mill Creek-Great Miami	-14,600
Kentucky-Salt-Green-Wabash	-2,100
Cumberland	-108,000
<b>TOTAL</b>	<b>-282,700</b>

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