

	<p><b>WATER MANAGEMENT MONTHLY REPORT</b></p> <p><b><u>Information Exchange Bulletin</u></b></p> <p><b>Vol. No. <u>08 – 07</u></b></p> <p><b>Date: 05 August 2008</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 JULY 2008

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 38.60 feet. The Cairo stage fell to a low 23.95 feet on the 23<sup>rd</sup> of the month before rising to 29.40 feet at the end of the month. Flood stage at Cairo is 40 feet

**WEATHER** – Precipitation departures varied across the basin during July as most of the month's events were comprised of showers and thunderstorms along cold fronts. Precipitation departures ranged from 2.97 inches below normal at Columbus, OH to 2.16 inches above normal at Indianapolis, IN. The most significant precipitation events were on the 4<sup>th</sup>, 5<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, 13<sup>th</sup>, 22<sup>nd</sup>, 23<sup>rd</sup>, 26<sup>th</sup>, and the 31<sup>st</sup>.

Ohio Valley temperatures averaged slightly below normal in the northern half of the basin and slightly above normal in the southern half. The temperatures ranged from 2.0 degrees below normal in Cincinnati, OH to 1.4 degrees above normal in Louisville, KY.

### TEMPERATURE AND PRECIPITATION – JULY 2008

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	72.5	-0.1	2.58	-1.38
Charleston, WV	74.2	+0.3	5.16	+0.30
Columbus, OH	75.4	+0.3	1.65	-2.97
Cincinnati, OH	74.3	-2.0	3.39	-0.36
Louisville, KY	79.8	+1.4	3.83	-0.47
Indianapolis, IN	75.0	-0.4	6.58	+2.16
Evansville, IN	77.6	-1.0	3.90	+0.15
Nashville, TN	79.5	+0.4	4.32	+0.55

**STREAMFLOW** – Stream flow throughout the Ohio River during July began above normal. As a drier weather pattern set in for the last two weeks of July, flows dropped below normal downstream of Huntington, WV by the end of the month. The monthly average flows ranged from a low of 120 percent of normal at Evansville, IN to a high of 160 percent of normal at Pittsburgh, PA and Huntington, WV. Daily flows ranged from a low of 8 percent of normal at Louisville, KY to a high of 348 percent of normal at Huntington, WV.

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

**FLOW DATA – JULY 2008**

STATION	AVERAGE MONTHLY FLOW  CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	22,000	160	323	52
Huntington, WV	58,000	160	348	44
Cincinnati, OH	64,000	144	296	45
Louisville, KY	72,000	136	241	8
Evansville, IN	74,000	120	217	26
Paducah, KY	187,000	134	199	57

**RESERVOIRS** – July began with 3.9% utilization of the total system flood control storage and ended the month at 2.3%. System-wide augmentation storage availability began the month at 99.0% and was at 98.7% by the end of the month.

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

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	-32,500
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-45,900
Twelvepole-Big Sandy-Little Sandy-Scioto	-12,300
Little Miami-Licking-Mill Creek-Great Miami	-5,400
Kentucky-Salt-Green-Wabash	-190,100
Cumberland	-149,200
<b>TOTAL</b>	<b>-435,400</b>

Prepared by:  
Water Management Division  
Great Lakes and Ohio River Division  
U.S. Army Corps of Engineers