

	<p><b>WATER MANAGEMENT MONTHLY REPORT</b></p> <p><b><u>Information Exchange Bulletin</u></b></p> <p><b>Vol. No. <u>08 – 11</u></b></p> <p><b>Date: 15 December 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 NOVEMBER 2008**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 17.69 feet. The Cairo stage fell to a low of 11.56 feet on the 10<sup>th</sup> of the month. Cairo was at 13.20 feet by month’s end. Flood stage at Cairo is 40 feet. Dry weather resulted in the continuation of drought conditions, especially in the southern areas of the basin.

**WEATHER** –The weather was colder and drier than normal in the Ohio Valley during November. Precipitation departures ranged from 2.70 inches below normal at Nashville, TN to 0.70 inches below normal at Columbus, OH. Temperatures departures in the basin ranged from 1.3 degrees below normal at Indianapolis, IN to 2.9 degrees below normal in Nashville, TN. The time period from the 13<sup>th</sup> through the 16<sup>th</sup> and the 24<sup>th</sup> through the 26<sup>th</sup> constituted the month’s main wet periods.

**TEMPERATURE AND PRECIPITATION – NOVEMBER 2008**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	40.1	-2.2	2.00	-1.02
Charleston, WV	43.3	-2.6	2.71	-0.95
Columbus, OH	41.6	-2.1	2.49	-0.70
Cincinnati, OH	42.3	-2.4	1.73	-1.73
Louisville, KY	45.5	-2.1	1.84	-1.97
Indianapolis, IN	41.6	-1.3	1.97	-1.64

Evansville, IN	43.6	-2.3	3.42	-0.76
Nashville, TN	46.4	-2.9	1.75	-2.70

**STREAMFLOW** – The monthly average flows ranged from a low of 39% of normal at Paducah, KY to a high of 61% of normal at Huntington, WV. Daily flows ranged from a low of 20% of normal at Louisville, KY to a high of 126% of normal at Huntington, WV.

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

**FLOW DATA – NOVEMBER 2008**

STATION	AVERAGE MONTHLY FLOW  CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	13,000	58	120	28
Huntington, WV	27,000	61	126	25
Cincinnati, OH	29,000	54	105	30
Louisville, KY	25,000	43	88	20
Evansville, IN	30,000	44	86	27
Paducah, KY	54,000	39	54	22

**RESERVOIRS** – November began with 2.5% utilization of the total system flood control storage and ended the month at 2.9%. System-wide augmentation storage availability began the month at 87.7% and was at 87.7% by the end of the month.

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

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	-31,900
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-130,200
Twelvepole-Big Sandy-Little Sandy-Scioto	-55,600
Little Miami-Licking-Mill Creek-Great Miami	-40,400
Kentucky-Salt-Green-Wabash	-276,500
Cumberland	-112,800
<b>TOTAL</b>	<b>-647,400</b>

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