

	<p><b>WATER MANAGEMENT MONTHLY REPORT</b></p> <p><b><u>Information Exchange Bulletin</u></b></p> <p><b>Vol. No. <u>10 – 12</u></b></p> <p><b>Date: 12 January 2010</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 DECEMBER 2010**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 25.81 feet. Cairo crested at 32.46 feet on the 6<sup>th</sup>. The Cairo stage was at 17.05 feet at the end of the month. Flood stage at Cairo is 40 feet.

**WEATHER** – December was much colder and drier than normal in the Ohio Valley, except in the Appalachian region in the east, which received rain from a storm that ended on the 1<sup>st</sup>. This cold weather caused many of the precipitation events to be snowfall, especially north of the Ohio River. The most significant precipitation totals happened on the 12<sup>th</sup> and the 15<sup>th</sup> through the 17<sup>th</sup>. Precipitation departures in the basin ranged from 2.67 inches below normal at Nashville, TN to 0.89 inches below normal at Charleston, WV.

Temperature departures in the basin ranged from 9.1 degrees below normal at Cincinnati, OH to 5.6 degrees below normal at Evansville, IN.

**TEMPERATURE AND PRECIPITATION – DECEMBER 2010**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	25.6	-6.9	1.56	-1.30
Charleston, WV	28.9	-8.6	2.43	-0.89
Columbus, OH	26.5	-7.0	1.26	-1.67
Cincinnati, OH	26.5	-8.1	1.77	-1.51
Louisville, KY	30.8	-6.8	1.66	-2.03

Indianapolis, IN	25.4	-6.2	1.86	-1.17
Evansville, IN	30.0	-5.6	1.80	-1.93
Nashville, TN	34.4	-6.1	1.87	-2.67

**STREAMFLOW** – The monthly average flows ranged from a low of 94% of normal at Evansville, IN to a high of 138% of normal at Pittsburgh, PA.

Daily flows ranged from a low of 32% of normal at Pittsburgh, PA to a high of 542% of normal at Pittsburgh, PA.

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

**FLOW DATA – DECEMBER 2010**

STATION	AVERAGE MONTHLY FLOW  CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	52,000	138	542	32
Huntington, WV	95,000	118	348	42
Cincinnati, OH	102,000	102	273	35
Louisville, KY	116,000	106	260	32
Evansville, IN	126,000	94	207	34
Paducah, KY	241,000	98	175	50

**RESERVOIRS** – December began with 3.6% utilization of the total system flood control storage and ended the month at 1.9%. System-wide augmentation storage availability began the month at 90.6% and was at 92.4% by the end of the month.

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

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	-174,800
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-50,500
Twelvepole-Big Sandy-Little Sandy-Scioto	-8,900
Little Miami-Licking-Mill Creek-Great Miami	-3,900
Kentucky-Salt-Green-Wabash	-97,100
Cumberland	-18,900
<b>TOTAL</b>	<b>-354,100</b>

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