

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>08 – 12</u></p> <p>Date: 13 January 2008</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 2008

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 13.19 feet. The Cairo stage fell to a low of 10.26 feet on the 9th of the month before stages started to rise from day 10 to the end of the month. Cairo was at 38.97 feet at month’s end. Flood stage at Cairo is 40 feet. A flood control operation was initiated on 29 December.

WEATHER – The weather was wetter than normal during December. Precipitation departures ranged from 1.24 inches above normal at Cincinnati, OH to 2.55 inches above normal at Indianapolis, IN. Major storm systems affected the Ohio Valley on the 9th through the 12th, the 19th through the 21st, the 23rd through the 25th and the 28th and 29th. Significant winter weather was generally limited to areas north of I-70. However, there was some icing at the onset of the December 23rd event for most areas near and north of the Ohio River.

The basin temperatures were within a degree of the seasonal normal during December. Several cold spells were counteracted by warm periods as the storm track generally went through the central part of the basin. Temperatures departures in the basin ranged from 0.9 degrees below normal at Indianapolis, IN to 0.6 degrees above normal in Charleston, WV.

TEMPERATURE AND PRECIPITATION – DECEMBER 2008

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	33.0	+0.5	4.70	+1.84
Charleston, WV	38.1	+0.6	5.08	+1.76

Columbus, OH	33.1	-0.4	4.84	+1.91
Cincinnati, OH	33.9	-0.7	4.42	+1.14
Louisville, KY	37.5	-0.1	5.18	+1.49
Indianapolis, IN	30.7	-0.9	5.58	+2.55
Evansville, IN	35.5	-0.1	4.81	+1.27
Nashville, TN	40.7	+0.2	6.72	+2.18

STREAMFLOW – The monthly average flows ranged from a low of 103% of normal at Evansville, IN to a high of 185% of normal at Pittsburgh, PA. Daily flows ranged from a low of 16% of normal at Paducah, KY to a high of 361% of normal at Pittsburgh, PA.

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

FLOW DATA – DECEMBER 2008

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	69,000	185	361	47
Huntington, WV	116,000	145	255	34
Cincinnati, OH	126,000	126	227	23
Louisville, KY	144,000	132	231	23
Evansville, IN	138,000	103	201	23
Paducah, KY	268,000	109	203	16

RESERVOIRS – December began with 2.9% utilization of the total system flood control storage and ended the month at 4.7%. System-wide augmentation storage availability began the month at 87.7% and was at 96.9% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	182,800
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	25,100
Twelvepole-Big Sandy-Little Sandy-Scioto	4,800
Little Miami-Licking-Mill Creek-Great Miami	-7,200
Kentucky-Salt-Green-Wabash	170,600
Cumberland	356,900
TOTAL	733,000

Prepared by:

Water Management Division

Great Lakes and Ohio River Division

U.S. Army Corps of Engineers