

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>12 -01</u></p> <p>Date: 7 February 2012</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 JANUARY 2012

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 37.90 feet. Cairo stage was at 40.72 feet at the end of the month. Flood stage at Cairo is 40 feet. A flood operation was initiated on the 25th.

WEATHER – January continued the trend of conditions resembling springtime more than wintertime in the Ohio Valley with above normal temperatures due to La Nina and a weather pattern over the North Atlantic. Above normal precipitation was observed north of the Ohio River. The most significant rainfall events were from the 6th through the 8th, the 10th through the 12th, the 16th through the 18th, the 22nd through the 23rd and the 25th through the 28th. A significant winter weather event from the 20th into the 21st resulted in ice and snow accumulations (0.25” liquid equivalent) north of the Ohio River. That event was the only substantial winter weather event during January. Precipitation departures in the basin ranged from 0.89 inches below normal at Charleston, WV to 2.39 inches above normal at Cincinnati, OH.

Temperature departures in the basin ranged from 4.1 degrees above normal at Columbus, OH to 5.6 degrees above normal at Indianapolis, IN and Nashville, TN.

TEMPERATURE AND PRECIPITATION – JANUARY 2012

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	32.8	+4.4	3.85	+1.15
Charleston, WV	38.7	+4.3	2.11	-0.89
Columbus, OH	33.7	+4.1	3.82	+1.09

Cincinnati, OH	35.3	+4.5	5.39	+2.39
Louisville, KY	39.2	+4.3	4.15	+0.91
Indianapolis, IN	33.7	+5.6	3.48	+0.82
Evansville, IN	37.4	+4.9	3.39	+0.29
Nashville, TN	43.3	+5.6	5.13	+1.38

STREAMFLOW – The monthly average flows ranged from a low of 129% of normal at Huntington, WV to a high of 158% of normal at Pittsburgh, PA.

Daily flows ranged from a low of 60% of normal at Louisville, KY to a high of 328% of normal at Pittsburgh, PA.

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

FLOW DATA – JANUARY 2012

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL			
		CUBIC FEET/SECOND	MONTHLY	DAILY	
				HIGH	LOW
Pittsburgh, PA	68,000	158	328	66	
Huntington, WV	144,000	129	225	65	
Cincinnati, OH	184,000	135	223	69	
Louisville, KY	231,000	136	226	60	
Evansville, IN	259,000	135	243	64	
Paducah, KY	517,000	131	191	69	

RESERVOIRS – January began with 5.7% utilization of the total system flood control storage and ended the month at 6.4%. System-wide augmentation storage availability began the month at 94.4% and was 95.7% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+23,500
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+94,700
Twelvepole-Big Sandy-Little Sandy-Scioto	+72,700
Little Miami-Licking-Mill Creek-Great Miami	+15,400
Kentucky-Salt-Green-Wabash	-66,900
Cumberland	-314,200
TOTAL	-174,800

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