

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>11 – 05</u></p> <p>Date: 15 June 2011</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 MAY 2011

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 59.29 feet. Cairo crested at an all-time record stage of 61.72 feet at 2200 Central Time on the 2nd. This crest was set as the Birds Point – New Madrid Floodway was operated for the first time since 1937. The Cairo stage then began to fall, reaching 46.24 feet by the end of the month. Flood stage at Cairo is 40 feet. Continued heavy rainfall in the Ohio and Mississippi Valleys combining with water from record snowpack in the Missouri and Upper Mississippi River basins caused this historic flood. The flood control operation that began in April continued for the duration of May.

WEATHER – Early in May, a consistent southwesterly feed of moisture into the lower Ohio and middle Mississippi Valley resulted in record flood crests at Cairo, IL and along the lower Mississippi River throughout the month. The weather pattern became more progressive and rainfall totals were lighter from the middle to late portion of the month. Significant rainfall occurred from the 1st through the 3rd, the 13th through the 15th, and the 25th through the 26th. Precipitation departures in the basin ranged from 0.69 inches below normal at Nashville, TN to 2.93 inches above normal at Louisville, KY.

Temperature departures in the basin ranged from 0.3 degrees below normal at Evansville, IN to 2.9 degrees above normal at Pittsburgh, PA.

TEMPERATURE AND PRECIPITATION – MAY 2011

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	62.9	+2.9	4.58	+0.78
Charleston, WV	65.1	+2.7	5.54	+1.24

Columbus, OH	64.2	+1.6	5.90	+2.02
Cincinnati, OH	63.5	-0.2	6.71	+2.12
Louisville, KY	67.6	+1.8	7.81	+2.93
Indianapolis, IN	63.8	+1.2	4.97	+0.61
Evansville, IN	65.3	-0.3	7.90	+2.89
Nashville, TN	67.2	+0.1	4.38	-0.69

STREAMFLOW – The monthly average flows ranged from a low of 172% of normal at Huntington, WV to a high of 286% of normal at Evansville, IN. Daily flows ranged from a low of 123% of normal at Pittsburgh, PA to a high of 472% of normal at Evansville, IN.

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

FLOW DATA – MAY 2011

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	72,000	190	363	123
Huntington, WV	160,000	172	284	127
Cincinnati, OH	244,000	198	315	134
Louisville, KY	327,000	232	405	156
Evansville, IN	483,000	286	472	178
Paducah, KY	911,000	281	400	161

RESERVOIRS – May began with 27.8% utilization of the total system flood control storage. Total system flood control storage utilized peaked at a new record of 37.9% on the 5th and ended the month at 10.9%. System-wide augmentation storage availability began the month at 99.2% and was at 99.2% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-165,900
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-78,600
Twelvepole-Big Sandy-Little Sandy-Scioto	-106,800
Little Miami-Licking-Mill Creek-Great Miami	-343,600
Kentucky-Salt-Green-Wabash	-610,800
Cumberland	-1,723,100
TOTAL	-3,028,800

Prepared by:
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