

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>10 – 04</u></p> <p>Date: 27 May 2010</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 APRIL 2010

HIGHLIGHTS – The Ohio River at Cairo, IL began the month at a stage of 45.44 feet. Cairo stage was at 35.17 feet at the end of the month. Flood stage at Cairo is 40 feet. Drier weather developed for much of April, resulting in the termination of the flood reduction operation on the 8th.

WEATHER – April was much warmer and generally drier than normal. Temperature departures in the basin ranged from 4.9 degrees above normal at Cincinnati, OH to 7.6 degrees above normal at Indianapolis, IN. Precipitation departures in the basin ranged from 2.03 inches below normal at Cincinnati, OH to 0.6 inches above normal at Louisville, KY.

There were few major weather events during April. The most significant rainfall events occurred on the 7th through the 9th and the 23rd through the 25th.

TEMPERATURE AND PRECIPITATION – APRIL 2010

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	55.3	+5.4	1.76	-1.25
Charleston, WV	59.8	+5.5	2.20	-1.05
Columbus, OH	58.1	+6.1	2.51	-0.74
Cincinnati, OH	58.6	+4.9	1.93	-2.03
Louisville, KY	62.6	+6.2	3.97	+0.06

Indianapolis, IN	59.6	+7.6	2.97	-0.64
Evansville, IN	61.1	+5.6	3.27	-1.21
Nashville, TN	62.8	+4.3	3.48	-0.45

STREAMFLOW – The monthly average flows ranged from a low of 42% of normal at Pittsburgh, PA to a high of 56% of normal at Paducah, KY.

Daily flows ranged from a low of 17% of normal at Louisville, KY to a high of 110% of normal at Cincinnati, OH. The following table presents the flow data summary for the Ohio River Index Stations:

FLOW DATA – APRIL 2010

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	24,000	42	88	23
Huntington, WV	64,000	46	102	23
Cincinnati, OH	78,000	44	110	22
Louisville, KY	95,000	45	104	17
Evansville, IN	114,000	47	102	19
Paducah, KY	259,000	56	102	19

RESERVOIRS – April began with 6.0% utilization of the total system flood control storage and ended the month at 1.8%. System-wide augmentation storage availability began the month at 97.0% and was at 91.0% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+70,000
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+122,500
Twelvepole-Big Sandy-Little Sandy-Scioto	+77,500
Little Miami-Licking-Mill Creek-Great Miami	+54,500
Kentucky-Salt-Green-Wabash	+202,700
Cumberland	+127,700
TOTAL	+655,000

Prepared by:

Water Management Division

Great Lakes and Ohio River Division

U.S. Army Corps of Engineers