

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>10 – 03</u></p> <p>Date: 16 April 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 MARCH 2010

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 30.63 feet. Melting snow in the upper Ohio Valley along with a series of modest spring rainfall events resulted in minor to moderate flooding in the basin. As a result, the Cairo stage was at a crest of 45.44 feet at the end of the month. Flood stage at Cairo is 40 feet. A flood control operation was initiated on 15 March.

WEATHER – A significant weather pattern change in the beginning of the month ushered in a spring weather pattern that became increasingly dry as the month progressed. However, during the transition there were some significant rainfall events during the beginning and middle of the month. Precipitation departures in the basin ranged from 3.24 inches below normal at Louisville, KY to 0.04 inches below normal at Charleston, WV. The main significant precipitation event during March was from the 10th through the 13th. Flows increased before that date due to snowmelt in the upper Ohio and middle Mississippi River basins. Other rainfall events were from the 22nd through the 23rd and from the 27th through the 28th.

Temperature departures in the basin ranged from 1.4 degrees below normal at Nashville, TN to 4.2 degrees above normal at Indianapolis, IN.

TEMPERATURE AND PRECIPITATION – MARCH 2010

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	43.3	+3.5	2.19	-0.98
Charleston, WV	46.6	+1.3	3.86	-0.04
Columbus, OH	44.2	+2.2	2.75	-0.14

Cincinnati, OH	45.6	+1.7	3.50	-0.40
Louisville, KY	49.0	+2.1	1.17	-3.24
Indianapolis, IN	45.9	+4.2	3.09	-0.35
Evansville, IN	47.3	+1.5	3.97	-0.32
Nashville, TN	48.7	-1.4	3.52	-1.35

STREAMFLOW – The monthly average flows ranged from a low of 73% of normal at Paducah, KY to a high of 103% of normal at Pittsburgh, PA and Huntington, WV.

Daily flows ranged from a low of 33% of normal at Pittsburgh, PA to a high of 246% of normal at Pittsburgh, PA. The following table presents the flow data summary for the Ohio River Index Stations:

FLOW DATA – MARCH 2010

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
CUBIC FEET/SECOND			HIGH	LOW
Pittsburgh, PA	70,000	103	246	33
Huntington, WV	171,000	103	226	44
Cincinnati, OH	208,000	98	195	43
Louisville, KY	233,000	93	167	45
Evansville, IN	234,000	78	130	41
Paducah, KY	382,000	73	104	38

RESERVOIRS – March began with 1.6% utilization of the total system flood control storage and ended the month at 6.0%. System-wide augmentation storage availability began the month at 96.0% and was at 97.0% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+492,900
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+103,400
Twelvepole-Big Sandy-Little Sandy-Scioto	+40,600
Little Miami-Licking-Mill Creek-Great Miami	+53,000
Kentucky-Salt-Green-Wabash	+216,400
Cumberland	+217,500
TOTAL	+1,123,800

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