

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>12 -05</u></p> <p>Date: 18 June 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 MAY 2012

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 22.38 feet. Cairo stage was at 14.39 feet at the end of the month. Flood stage at Cairo is 40 feet.

WEATHER – May returned to much warmer than normal conditions throughout the Ohio Valley with precipitation generally below normal except for an in central and northern Kentucky and in parts of southern Ohio. This set the stage for drought conditions to develop in the basin by the end of the month, which contrasted with the much above normal to near record flows of last year. Precipitation departures in the basin ranged from 3.07 inches below normal at Evansville IN to 2.60 inches above normal at Louisville, KY. Temperature departures in the basin ranged from 5.3 degrees above normal at Nashville, TN to 7.2 degrees above normal at Columbus, OH.

TEMPERATURE AND PRECIPITATION – MAY 2012

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	67.0	+6.9	4.69	+0.74
Charleston, WV	65.5	+5.7	3.90	-0.76
Columbus, OH	69.7	+7.2	2.30	-1.87
Cincinnati, OH	69.0	+5.5	3.53	-1.40
Louisville, KY	72.6	+5.5	7.87	+2.60
Indianapolis, IN	68.8	+6.1	2.70	-2.35
Evansville, IN	72.1	+6.4	2.29	-3.07

Nashville, TN	72.8	+5.3	4.01	-1.49
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STREAMFLOW – The monthly average flows ranged from a low of 60% of normal at Paducah, KY to a high of 102% of normal at Louisville, KY.

Daily flows ranged from a low of 19% of normal at Paducah, KY to a high of 218% of normal at Pittsburgh, PA.

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

FLOW DATA – MAY 2012

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	38,000	93	218	27
Huntington, WV	93,000	101	209	37
Cincinnati, OH	123,000	99	195	32
Louisville, KY	141,000	102	182	20
Evansville, IN	169,000	88	153	25
Paducah, KY	324,000	60	100	19

RESERVOIRS – May began with 0.8% utilization of the total system flood control storage and ended the month at 0.5%. System-wide augmentation storage availability began the month at 84.8% and was 92.5% 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	-14,500

Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	43,600
Twelvepole-Big Sandy-Little Sandy-Scioto	22,700
Little Miami-Licking-Mill Creek-Great Miami	52,000
Kentucky-Salt-Green-Wabash	159,300
Cumberland	120,300
TOTAL	383,400

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