

	<p><b>WATER MANAGEMENT MONTHLY REPORT</b></p> <p><b><u>Information Exchange Bulletin</u></b></p> <p><b>Vol. No. <u>12 -04</u></b></p> <p><b>Date: 14 May 2012</b></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 2012**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 28.02 feet. Cairo stage was at 22.32 feet at the end of the month. Flood stage at Cairo is 40 feet. The stages at Cairo, IL for the time period between the 14<sup>th</sup> and 17<sup>th</sup> were the lowest since 1898.

**WEATHER** – April was much closer to the normal temperatures than March was for the Ohio Valley. In fact, Pittsburgh, Charleston, Louisville, Indianapolis, Evansville, Columbus, and Cincinnati recorded an April average temperature that was colder than March. This happened at these locations once before, in 1907. Due to the strong high pressure area that influenced the Ohio Valley’s weather during April, especially between the 7<sup>th</sup> and the 25<sup>th</sup>, precipitation was generally below normal in many areas in contrast with the record rainfall last year. Precipitation departures in the basin ranged from 2.93 inches below normal at Evansville IN to 0.59 inches above normal at Charleston, WV.

Temperature departures in the basin ranged from 0.6 degrees below normal at Charleston, WV to 3.0 degrees above normal at Evansville, IN and Nashville, TN.

**TEMPERATURE AND PRECIPITATION – APRIL 2012**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	50.4	-0.5	1.31	-1.80
Charleston, WV	55.5	-0.6	3.83	+0.59
Columbus, OH	53.1	-0.0	3.60	+0.20
Cincinnati, OH	54.1	-0.1	3.57	-0.32

Louisville, KY	59.4	+1.4	3.40	-0.61
Indianapolis, IN	54.5	+1.5	3.36	-0.45
Evansville, IN	59.1	+3.0	1.44	-2.93
Nashville, TN	62.0	+3.0	2.86	-1.14

**STREAMFLOW** – The monthly average flows ranged from a low of 29% of normal at Paducah, KY to a high of 44% of normal at Huntington, WV.

Daily flows ranged from a low of 15% of normal at Louisville, KY to a high of 95% of normal at Huntington, WV.

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

**FLOW DATA – APRIL 2012**

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		CUBIC FEET/SECOND	MONTHLY	DAILY
				HIGH
Pittsburgh, PA	58,000	33	64	18
Huntington, WV	137,000	44	95	21
Cincinnati, OH	178,000	43	92	20
Louisville, KY	210,000	37	93	15
Evansville, IN	244,000	35	67	18
Paducah, KY	465,000	29	48	17

**RESERVOIRS** – April began with 3.3% utilization of the total system flood control storage and ended the month at 0.8%. System-wide augmentation storage availability began the month at 96.7% and was 84.8% by the end of the month.

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

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	+124,100
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+156,800
Twelvepole-Big Sandy-Little Sandy-Scioto	+91,700
Little Miami-Licking-Mill Creek-Great Miami	+42,000
Kentucky-Salt-Green-Wabash	+49,200
Cumberland	-163,300
<b>TOTAL</b>	<b>+300,500</b>

**Prepared by:**

**Water Management Division**

**Great Lakes and Ohio River Division**

**U.S. Army Corps of Engineers**