



**WATER MANAGEMENT  
MONTHLY REPORT**  
**Information Exchange Bulletin**

**Vol. No. 08 – 04**

**Date: 06 May 2008**

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**RESERVOIR OPERATION AND SYSTEM STATUS FOR APRIL 2008**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 50.96 feet. The Cairo stage rose cresting at 52.78 feet on the 15<sup>th</sup> of the month before dropping to 34.89 feet at the end of the month. Flood stage at Cairo is 40 feet. The flood control operation that began on the 6<sup>th</sup> of March ended on 24<sup>th</sup> of April.

**WEATHER** – Precipitation was above normal in the southwestern region of the Ohio River basin during April. Elsewhere in the basin it ranged from normal to below normal. Precipitation departures ranged from 2.07 inches below normal at Indianapolis, IN to 3.27 inches above normal at Nashville, TN. Major rainfall events occurred on the 1<sup>st</sup>, a very heavy event on the 4<sup>th</sup> through the 5<sup>th</sup>, the 11<sup>th</sup> and 12<sup>th</sup>, the 19<sup>th</sup> through the 20<sup>th</sup> and also from the 28<sup>th</sup> through the 29<sup>th</sup>.

Ohio Valley temperatures were slightly below normal in the south to above normal in the north and east. The temperatures ranged from 1.4 degrees below normal at Louisville, KY to 4.0 degrees above normal in Pittsburgh, PA.

**TEMPERATURE AND PRECIPITATION – APRIL 2008**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	53.9	+4.0	2.02	-0.99
Charleston, WV	57.2	+2.9	3.21	-0.04
Columbus, OH	55.6	+3.6	2.16	-1.09
Cincinnati, OH	54.7	+1.0	2.75	-1.21
Louisville, KY	57.8	-1.4	6.13	+2.22

Indianapolis, IN	53.8	+1.8	1.54	-2.07
Evansville, IN	55.1	-0.4	5.07	+0.59
Nashville, TN	58.1	-0.4	7.20	+3.27

**STREAMFLOW** – Stream flow throughout the Ohio River during April began above normal, before dropping below normal by the end of the month as flooding conditions eased. The monthly average flows ranged from a low of 76 percent of normal at Pittsburgh, PA to a high of 133 percent of normal at Paducah, KY. Daily flows ranged from a low of 26 percent of normal at Louisville, KY a high of 217 percent of normal Evansville, IN.

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

**FLOW DATA – APRIL 2008**

STATION	AVERAGE MONTHLY FLOW  CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	44,000	76	131	38
Huntington, WV	108,000	79	144	41
Cincinnati, OH	157,000	88	183	38
Louisville, KY	200,000	96	204	26
Evansville, IN	289,000	118	217	36
Paducah, KY	622,000	134	187	50

**RESERVOIRS** – April began with 13.8% utilization of the total system flood control storage and ended the month at 3.6%. System-wide augmentation storage availability began at 98.7% at the beginning of the month and was at 97.9% 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	+115,800
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-215,900
Twelvepole-Big Sandy-Little Sandy-Scioto	+35,100
Little Miami-Licking-Mill Creek-Great Miami	-54,900
Kentucky-Salt-Green-Wabash	+78,300
Cumberland	-178,000
<b>TOTAL</b>	<b>-219,600</b>

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