

	<p><b>WATER MANAGEMENT MONTHLY REPORT</b></p> <p><b><u>Information Exchange Bulletin</u></b></p> <p><b>Vol. No. <u>08 – 05</u></b></p> <p><b>Date: 6 May 2008</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 MAY 2008**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 34.85 feet. The Cairo stage rose during the middle of the month, cresting at 43.03 feet on the 20<sup>th</sup> of the month before dropping to 34.10 feet at the end of the month. Flood stage at Cairo is 40 feet. A flood control operation was conducted from the 12<sup>th</sup> through the 27<sup>th</sup>.

**WEATHER** – Precipitation was above normal in the Ohio River basin during May except in the southeast and northeast. Precipitation departures ranged from 0.74 inches below normal at Columbus, OH to 3.06 inches above normal at Evansville, IN. Major rainfall events occurred May 3<sup>rd</sup>, the 8<sup>th</sup> through the 12<sup>th</sup>, the 16<sup>th</sup>, the 20<sup>th</sup>, the 27<sup>th</sup> and 28<sup>th</sup>, and the 31<sup>st</sup>.

Ohio Valley temperatures were below normal during May. The temperatures ranged from 0.3 degrees below normal at Nashville, TN to 3.2 degrees below normal at Cincinnati, OH.

**TEMPERATURE AND PRECIPITATION – MAY 2008**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	57.0	-3.0	3.20	-0.60
Charleston, WV	61.3	-1.1	6.12	+1.82
Columbus, OH	60.4	-2.2	3.14	-0.74
Cincinnati, OH	60.5	-3.2	6.32	+1.73
Louisville, KY	64.8	-1.0	5.69	+0.81
Indianapolis, IN	59.8	-2.8	5.54	+1.18
Evansville, IN	63.1	-2.5	8.07	+3.06
Nashville, TN	66.8	-0.3	5.54	+0.47

**STREAMFLOW** – Stream flow throughout the Ohio River during May began and ended below normal. A series of rain events during the middle of the month raised flows above normal during that time. The monthly average flows ranged from a low of 108 percent of normal at Paducah, KY to a high of 136 percent of normal at Pittsburgh, PA. Daily flows ranged from a low of 46 percent of normal at Louisville, KY to a high of 239 percent of normal also at Louisville, KY. The following table presents the flow data summary for May at the Ohio River Index Stations:

**FLOW DATA – MAY 2008**

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND			HIGH
Pittsburgh, PA	52,000	136	229	64
Huntington, WV	118,000	128	216	52
Cincinnati, OH	155,000	126	222	51
Louisville, KY	177,000	126	239	46
Evansville, IN	200,000	118	198	53
Paducah, KY	350,000	108	147	69

**RESERVOIRS** – May began with 3.6% utilization of the total system flood control storage and ended the month at 3.8%. System-wide augmentation storage availability began at 97.9% at the beginning of the month and was at 99.2% by the end of the month.

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

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	-24,600
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-5,700
Twelvepole-Big Sandy-Little Sandy-Scioto	-400
Little Miami-Licking-Mill Creek-Great Miami	+9,600
Kentucky-Salt-Green-Wabash	-8,700
Cumberland	-46,300
<b>TOTAL</b>	<b>-76,100</b>

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