

	<p><b>WATER MANAGEMENT MONTHLY REPORT</b></p> <p><b><u>Information Exchange Bulletin</u></b></p> <p><b>Vol. No. <u>10 – 06</u></b></p> <p><b>Date: 4 August 2010</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 JUNE 2010**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 34.70 feet. Cairo rose as high as 38.06 feet on the 20<sup>th</sup>, but remained below flood stage all month. Cairo stage was at 37.83 feet at the end of the month. Flood stage at Cairo is 40 feet.

**WEATHER** – June’s weather was highlighted by frequent periods of showers and thunderstorms close to a front that was usually north of the Ohio River. This led to above normal precipitation in northern Illinois and Indiana, most of Ohio, far northern Kentucky and into parts of West Virginia and Pennsylvania. Below normal precipitation was more common farther south. The weather pattern also led to much warmer than normal temperatures, especially south of the Ohio River. The most significant showers and thunderstorms occurred between the 6<sup>th</sup> and the 10<sup>th</sup> and from the 12<sup>th</sup> through the 15<sup>th</sup>, when localized flash flooding impacted Ohio and West Virginia.

Precipitation departures in the basin ranged from 1.61 inches below normal at Evansville, IN to 5.60 inches above normal at Indianapolis, IN.

Temperature departures in the basin ranged from 2.4 degrees above normal at Pittsburgh, PA to 6.9 degrees above normal at Louisville, KY.

**TEMPERATURE AND PRECIPITATION – JUNE 2010**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	70.8	+2.4	5.13	+1.01
Charleston, WV	75.8	+5.9	3.55	-0.54
Columbus, OH	74.3	+3.1	5.38	+1.30

Cincinnati, OH	75.0	+3.0	6.94	+2.52
Louisville, KY	81.1	+6.9	4.39	+0.63
Indianapolis, IN	76.0	+4.3	9.73	+5.60
Evansville, IN	78.9	+4.1	2.49	-1.61
Nashville, TN	80.9	+5.8	4.96	+0.88

**STREAMFLOW** –The monthly average flows ranged from a low of 93 % of normal at Pittsburgh, PA to a high of 149 % of normal at Louisville, KY.

Daily flows ranged from a low of 36 % of normal at Pittsburgh, PA to a high of 319 % of normal at Louisville, KY.

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

**FLOW DATA – JUNE 2010**

STATION	AVERAGE MONTHLY FLOW  CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	22,000	93	228	36
Huntington, WV	67,000	118	213	51
Cincinnati, OH	86,000	115	222	56
Louisville, KY	118,000	149	319	57
Evansville, IN	121,000	122	201	51
Paducah, KY	251,000	130	162	95

**RESERVOIRS** – June began with 3.5 % utilization of the total system flood control storage and ended the month at 2.5 %. System-wide augmentation storage availability began the month at 98.7 % and was at 99.1 % by the end of the month.

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

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	+3,600
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+40,300
Twelvepole-Big Sandy-Little Sandy-Scioto	+400
Little Miami-Licking-Mill Creek-Great Miami	-7,800
Kentucky-Salt-Green-Wabash	-179,600
Cumberland	-250,400
<b>TOTAL</b>	<b>-393,500</b>

**Prepared by:**  
**Water Management Division**  
**Great Lakes and Ohio River Division**  
**U.S. Army Corps of Engineers**