



**WATER MANAGEMENT
MONTHLY REPORT**
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RESERVOIR OPERATION AND SYSTEM STATUS FOR OCTOBER 2011

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 22.01 feet. Cairo stage was at 20.37 feet at the end of the month. Flood stage at Cairo is 40 feet.

WEATHER – During October, the weather was variable in the Ohio Valley with wetter than normal conditions in the northeastern part of the basin and drier than normal conditions to the south and west, especially south of the Ohio River in western Kentucky, Tennessee and Alabama. Significant rainfall events were on the 2nd and 3rd (in the northern Appalachians), the 11th through the 14th, late on the 18th through the 20th and from the 26th through the 27th. A precipitation event from the 28th through the 30th mixed with snow in the Appalachians, resulting in tree damage from West Virginia northward. Precipitation departures in the basin ranged from 2.11 inches below normal at Nashville, TN to 2.11 inches above normal at Pittsburgh, PA.

Temperature departures in the basin ranged from 1.7 degrees below normal at Nashville, TN to 0.7 degrees above normal at Indianapolis, IN .

TEMPERATURE AND PRECIPITATION – OCTOBER 2011

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	52.7	0.0	4.40	+2.11
Charleston, WV	55.0	-1.5	4.37	+1.70
Columbus, OH	54.6	-0.4	3.68	+1.07
Cincinnati, OH	55.2	-0.7	4.02	+0.72

Louisville, KY	58.2	-1.3	2.39	-0.83
Indianapolis, IN	55.7	+0.7	2.82	-0.30
Evansville, IN	57.1	-0.5	2.49	-0.76
Nashville, TN	58.6	-1.7	0.93	-2.11

STREAMFLOW – The monthly average flows ranged from a low of 174% of normal at Paducah, KY to a high of 361% of normal at Louisville, KY.

Daily flows ranged from a low of 103% of normal at Pittsburgh, PA to a high of 653% of normal at Louisville, KY.

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

FLOW DATA – OCTOBER 2011

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	37,000	305	551	103
Huntington, WV	84,000	345	580	147
Cincinnati, OH	93,000	342	574	143
Louisville, KY	102,000	361	653	117
Evansville, IN	98,000	296	495	106
Paducah, KY	144,000	174	247	104

RESERVOIRS – October began with 1.3% utilization of the total system flood control storage and ended the month at 2.8%. System-wide augmentation storage availability began the month at 92.6% and was at 92.7% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-29,100
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-91,600
Twelvepole-Big Sandy-Little Sandy-Scioto	-21,600
Little Miami-Licking-Mill Creek-Great Miami	-35,300
Kentucky-Salt-Green-Wabash	-205,500
Cumberland	-195,000
TOTAL	-578,100

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