

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>11 – 07</u></p> <p>Date: 26 August 2011</p> <p>Prepared by: U.S. Army Engineer Division, Great Lakes and Ohio River, 550 Main St. #10032, Cincinnati, OH 45202-3222</p>
---	---

RESERVOIR OPERATION AND SYSTEM STATUS FOR JULY 2011

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 41.91 feet. Cairo stage was at 28.05 feet at the end of the month. Flood stage at Cairo is 40 feet. The flood control operation was terminated on 5 July.

WEATHER – July was hotter than normal across the Ohio Valley with precipitation departures varying widely as most rainfall during July came from showers and thunderstorms. Many locations were drier to much drier than normal with Indianapolis recording the city’s driest July on record with 0.47 inches of rain. Significant periods of showers and thunderstorms occurred between the 7th and the 9th, the 11th and the 13th, the 18th and the 19th, and the 24th through the 26th. Precipitation departures in the basin ranged from 4.08 inches below normal at Indianapolis, IN to 2.74 inches above normal at Evansville, IN.

Temperature departures in the basin ranged from +3.9 degrees above normal at Nashville, TN to +6.6 degrees above normal at Indianapolis, IN.

TEMPERATURE AND PRECIPITATION – JULY 2011

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	76.9	+4.3	2.62	-1.34
Charleston, WV	79.2	+3.8	2.83	-2.11
Columbus, OH	80.2	+5.1	5.67	+1.05
Cincinnati, OH	80.9	+4.6	2.22	-1.53

Louisville, KY	83.3	+4.9	2.35	-1.95
Indianapolis, IN	82.0	+6.6	0.47*	-4.08
Evansville, IN	82.5	+3.9	6.66	+2.91
Nashville, TN	83.0	+3.9	3.46	-0.31

* **Record low precipitation**

STREAMFLOW – The monthly average flows ranged from a low of 74% of normal at Pittsburgh, PA to a high of 161% of normal at Paducah, KY.

Daily flows ranged from a low of 36% of normal at Cincinnati, OH to a high of 231% of normal at Paducah, KY.

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

FLOW DATA – JULY 2011

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	10,000	74	132	48
Huntington, WV	32,000	88	177	39
Cincinnati, OH	45,000	101	150	36
Louisville, KY	52,000	98	150	45
Evansville, IN	60,000	98	160	45
Paducah, KY	224,000	161	231	91

RESERVOIRS – July began with 4.3% utilization of the total system flood control storage and ended the month at 1.2%. System-wide augmentation storage availability began the month at 99.0% and was at 95.2% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-131,200
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-33,600
Twelvepole-Big Sandy-Little Sandy-Scioto	+2,100
Little Miami-Licking-Mill Creek-Great Miami	+600
Kentucky-Salt-Green-Wabash	-350,400
Cumberland	-311,200
TOTAL	-823,700

Prepared by:

Water Management Division

Great Lakes and Ohio River Division

U.S. Army Corps of Engineers