

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>16-07</u></p> <p>Date: 17 August 2016</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 JULY 2016

HIGHLIGHTS – Cairo began the month at a stage of 28.09 ft and falling. The wickets at Locks and Dam 52 (LD 52) were raised briefly on 3-4 July to support navigation as flows decreased on the river. Heavy rain over the confluence region in early July necessitated the lowering of the wickets as flows increased on the lower river. Cairo rose from 20.31 ft on 4 July to its high for the month of 32.91 ft on 10 July. Drier conditions and subsequent decreasing flows once again led to the wickets being raised at LD 52 on 19 July. Cairo reached its low for the month of 19.52 ft on 22 July and after additional rain in the basin ended the month at 26.13 ft. Formal coordination continued throughout the month of July to support Olmsted construction.

WEATHER – July temperatures were near to above normal across the basin. Temperature departures in the basin ranged from 3.1 degrees above normal at Nashville, TN to 1.1 degrees above normal at a number of locations (see below). Precipitation for July was generally near to below normal across the eastern half of the basin and near to above normal across the western half. Precipitation departures in the basin ranged from 5.28 inches above normal at Evansville, IN to 2.30 inches below normal at Columbus, OH.

TEMPERATURE AND PRECIPITATION – JULY 2016

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	75.5	2.9	3.12	-0.71
Charleston, WV	76.9	1.5	4.71	-0.23
Columbus, OH	76.6	1.4	2.49	-2.30

Cincinnati, OH	77.0	1.1	5.06	1.30
Louisville, KY	80.8	1.5	4.65	0.42
Indianapolis, IN	76.5	1.1	5.66	1.11
Evansville, IN	79.1	1.1	9.20	5.28
Nashville, TN	82.5	3.1	6.28	2.64

STREAMFLOW – The monthly average flows ranged from a low of 69% of normal at Pittsburgh, PA to a high of 129% of normal at Evansville, IN. Daily flows ranged from a low of 14% of normal at Louisville, KY to a high of 250% of normal at Evansville, IN.

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

FLOW DATA – JULY 2016

STATION	AVERAGE MONTHLY FLOW CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	11,373	69	146	33
Huntington, WV	34,172	84	196	25
Cincinnati, OH	45,443	87	200	15
Louisville, KY	52,414	89	173	14
Evansville, IN	87,103	129	250	30
Paducah, KY	187,970	121	226	28

RESERVOIRS – July began with 0% utilization of the total system flood control storage and ended the month at 0%. System-wide augmentation storage availability began the month at 97% and was 96% 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	-198,200
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-49,100
Twelvepole-Big Sandy-Little Sandy-Scioto	-900
Little Miami-Licking-Mill Creek-Great Miami	3,200
Kentucky-Salt-Green-Wabash	-30,200
Cumberland	-115,700
TOTAL	-390,900

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