

	WATER MANAGEMENT MONTHLY REPORT
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RESERVOIR OPERATION AND SYSTEM STATUS FOR JULY 2004

HIGHLIGHTS – Cairo stage began the month at 34.8 feet and ended at 22.8 feet. The river has generally been falling the over the month at Cairo. Scattered showers have kept main stem river flows above normal.

WEATHER –The weather during July was generally cool and wet. Temperatures averaged 1 to 3 degrees below normal for most of the basin. Widely scattered showers, some heavy, dominated the later half of July. Wettest areas were in Indiana, Kentucky, parts of Ohio and Pennsylvania where there were small areas of twice the expected rainfall. Much of Tennessee, Virginia, West Virginia, eastern Kentucky and northern Indiana averaged below normal rainfall.

TEMPERATURE AND PRECIPITATION – JULY 2004

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	71.3	-1.3	5.67	+1.71
Charleston, WV	74.5	+0.6	3.73	-1.13
Columbus, OH	73.6	-1.5	6.46	+1.84
Cincinnati, OH	73.2	-3.1	6.14	+2.39
Louisville, KY	77.5	-0.9	6.38	+2.08
Indianapolis, IN	73.0	-2.4	7.72	+3.30
Evansville, IN	75.4	-3.2	7.56	+3.81
Nashville, TN	77.6	-1.5	3.19	-0.58

STREAMFLOW -- Ohio River monthly average flows for July ranged from a low of 120 percent of normal at Evansville, IN to a high of 156 percent of normal at Pittsburgh, PA. Daily flows ranged from a low of 54 percent of normal at Pittsburgh, PA to a high of 438 percent of normal at Pittsburgh, PA.

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

FLOW DATA – JULY 2004

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	21,700	156	438	54
Huntington, WV	52,300	144	254	88
Cincinnati, OH	59,100	132	251	87
Louisville, KY	67,800	127	246	88
Evansville, IN	73,900	120	197	71
Paducah, KY	189,000	136	238	80

RESERVOIRS -- July began with 3.1% utilization of the total system flood control storage and ended the month at 1.4%. System-wide augmentation storage started at 98.4% at the beginning of the month and was at 97.7% by the end of the month. Significant flood storage utilization in excess of 25 percent occurred at these projects during the month; Union City, East Branch Clarion and Patoka.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+4,200
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-52,100
Twelvepole-Big Sandy-Little Sandy-Scioto	+1,000
Little Miami-Licking-Mill Creek-Great Miami	-37,600
Kentucky-Salt-Green-Wabash	-109,900

Cumberland	-620,000
TOTAL	-814,400

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