



**WATER MANAGEMENT
MONTHLY REPORT**

Information Exchange Bulletin

Vol. No. 03 – 05

Date: 02 June 2003

Prepared by: U.S. Army Engineer Division,
Great Lakes and Ohio River, PO Box 1159,
Cincinnati, OH 45201-1159

RESERVOIR OPERATION AND SYSTEM STATUS FOR MAY 2003

HIGHLIGHTS – Cairo stage began the month at 29.5 feet and ended at 34.4 feet and was falling. The stage at Cairo crested at 50.6 on the 14th. Flood stage there is 40.0 feet. Excessive rainfall causes severe flooding in central Tennessee and minor flooding in Kentucky, Indiana, Illinois and Ohio.

WEATHER –The weather during May was cool and wet. Extremely heavy rainfall occurred from the 5th through the 8th, primarily across Tennessee with some areas receiving over 12 inches during that period. Additional rain from the 9th to 11th across Illinois, Indiana and Ohio caused minor flooding in those areas. Temperatures averaged a little below average over most of the basin.

TEMPERATURE AND PRECIPITATION – MAY 2003

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	59.1	-0.9	6.14	+2.34
Charleston, WV	62.2	-0.2	4.99	+0.69
Columbus, OH	60.8	-1.8	5.92	+2.04
Cincinnati, OH	61.8	-1.9	7.29	+2.70
Louisville, KY	64.5	-1.3	6.06	+2.15
Indianapolis, IN	61.1	-1.5	6.39	+2.03
Evansville, IN	64.4	-1.2	6.51	+1.50
Nashville, TN	67.2	+0.1	10.73	+5.66

STREAMFLOW -- Ohio River monthly average flows for May ranged from a low of 120 percent of normal at Pittsburgh, PA to a high of 191 percent of normal at Paducah, KY. Daily

flows ranged from a low of 32 percent of normal at Pittsburgh, PA to a high of 299 percent of normal at Pittsburgh, PA.

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

FLOW DATA – MAY 2003

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND			HIGH
Pittsburgh, PA	45,500	120	299	32
Huntington, WV	125,000	135	297	52
Cincinnati, OH	184,000	150	280	50
Louisville, KY	229,000	163	268	55
Evansville, IN	266,000	158	236	58
Paducah, KY	620,000	191	265	68

RESERVOIRS -- May started with 2.8% utilization of the total system flood control storage and ended the month at 1.8%. System-wide augmentation storage increased from 97.3% at the beginning of the month to 98.5% by the end of the month. Significant flood storage utilization in excess of 50% occurred at the following projects; Stonewall 55%, Huntington 52%, Center Hill 63 % and JP Priest 68 % and in excess of 25% at ten other projects.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+27,500
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+7,700
Twelvepole-Big Sandy-Little Sandy-Scioto	+2,300
Little Miami-Licking-Mill Creek-Great Miami	+14,300
Kentucky-Salt-Green-Wabash	+159,300
Cumberland	-198,700

TOTAL	+12,400
--------------	----------------

LYN C. RICHARDSON, P.E.
Chief, Technical Engineering & Construction Div.