



**WATER MANAGEMENT  
MONTHLY REPORT**

**Information Exchange Bulletin**

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**RESERVOIR OPERATION AND SYSTEM STATUS FOR APR 2003**

**HIGHLIGHTS** – Cairo stage began the month at 25.2 feet and ended at 29.5 feet and crested around 34 feet during the month. Flood stage at Cairo is 40.0 feet. There was minor flooding from excessive rainfall in eastern Kentucky. The northern areas of the basin generally continued dry during the month. Multipurpose reservoirs were in the process of raising pools to their summer level.

**WEATHER** –The weather during April was warm and generally dry. Temperatures averaged from 1.5 to 3.5 degrees above normal for the month. Precipitation averaged below normal for most of the basin. Driest areas were Indiana, Ohio, Pennsylvania, northern West Virginia and central Tennessee. Significant areas of Indiana and Ohio had less than half the expected rainfall. However, some areas had above average rainfall; Kentucky, Eastern Tennessee, southern West Virginia, Virginia and North Carolina.

**TEMPERATURE AND PRECIPITATION – APR 2003**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	53.3	+3.4	2.45	-0.56
Charleston, WV	57.4	+3.1	3.40	+0.15
Columbus, OH	54.9	+2.9	2.54	-0.71
Cincinnati, OH	55.7	+2.0	1.91	-2.05
Louisville, KY	57.8	+1.4	6.06	+2.15
Indianapolis, IN	54.6	+2.6	2.55	-1.06
Evansville, IN	57.4	+1.9	3.93	-0.55
Nashville, TN	61.1	+2.6	4.69	+0.76

**STREAMFLOW** -- Ohio River monthly average flows for April ranged from a low of 75 percent of normal at Paducah, KY to a high of 88 percent of normal at Evansville, IN. Daily flows ranged from a low of 23 percent of normal at Pittsburgh, PA to a high of 156 percent of normal at Cincinnati, OH and Louisville, KY.

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

**FLOW DATA – APR 2003**

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	46,700	81	149	23
Huntington, WV	109,000	79	152	35
Cincinnati, OH	148,000	83	156	38
Louisville, KY	179,000	86	156	45
Evansville, IN	215,000	88	146	51
Paducah, KY	351,000	75	119	43

**RESERVOIRS** -- April started with 4.5% utilization of the total system flood control storage and ended the month at 2.8%. System-wide augmentation storage decreased from 99.5% at the beginning of the month to 97.3% by the end of the month. Significant flood storage utilization in excess of 50% occurred at Mt Morris and Mosquito Creek projects and in excess of 25% at ten other projects.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+49,800
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+182,400
Twelvepole-Big Sandy-Little Sandy-Scioto	+113,000
Little Miami-Licking-Mill Creek-Great Miami	+39,500
Kentucky-Salt-Green-Wabash	+222,000

Cumberland	+797,800
<b>TOTAL</b>	<b>+1,404,500</b>

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