

	<b>WATER MANAGEMENT MONTHLY REPORT</b>
	<u>Information Exchange Bulletin</u>
	<b>Vol. No. <u>03 – 12</u></b>
	<b>Date: <u>5 January 2004</u></b>
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### RESERVOIR OPERATION AND SYSTEM STATUS FOR DECEMBER 2003

**HIGHLIGHTS** – Cairo stage began the month at 36.2 feet and ended at 31.1 feet, having remained above 26 feet the entire month. Flood stage is 40.0 feet. The majority of the reservoirs in the basin have been drawn down to winter pool and are in good condition for any necessary flood storage. This month has been somewhat drier than previous months but the ground remains generally wet.

**WEATHER** –The weather during December was drier than normal and generally warm. Temperatures averaged slightly above normal with the western and northern areas most above normal. The eastern and southern areas of the basin averaged slightly below normal temperatures. Rainfall was generally below normal with the driest areas in Tennessee, Kentucky and southern Indiana. Northern Indiana and parts of Ohio, Pennsylvania and West Virginia had normal rainfall for the month.

### TEMPERATURE AND PRECIPITATION – DECEMBER 2003

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	32.6	+0.1	4.34	+0.48
Charleston, WV	36.3	-1.2	2.89	-0.43
Columbus, OH	33.8	+0.3	2.78	-0.15
Cincinnati, OH	35.0	+0.4	2.26	-1.02
Louisville, KY	39.4	+1.8	3.13	-0.56
Indianapolis, IN	34.4	+2.8	3.48	+0.45
Evansville, IN	38.4	+2.8	1.20	-2.34
Nashville, TN	40.3	-0.2	3.19	-1.35

**STREAMFLOW** -- Ohio River monthly average flows for December ranged from a low of 169 percent of normal at Pittsburgh, PA to a high of 207 percent of normal at Louisville, KY. Daily flows ranged from a low of 88 percent of normal at Pittsburgh, PA to a high of 287 percent of normal at Pittsburgh, PA.

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

**FLOW DATA – DECEMBER 2003**

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND			HIGH
Pittsburgh, PA	63,500	169	287	88
Huntington, WV	141,000	175	259	106
Cincinnati, OH	188,000	188	248	132
Louisville, KY	227,000	207	279	156
Evansville, IN	244,000	182	240	139
Paducah, KY	446,000	181	250	140

**RESERVOIRS** -- December started with 5.7% utilization of the total system flood control storage and ended the month at 2.7%. System-wide augmentation storage started at 98.4% at the beginning of the month and was at 97.4% by the end of the month. Significant flood storage utilization in excess of 25 percent occurred at no projects during the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-80,100
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-92,200
Twelvepole-Big Sandy-Little Sandy-Scioto	-13,800
Little Miami-Licking-Mill Creek-Great Miami	-69,800

Kentucky-Salt-Green-Wabash	-169,700
Cumberland	-77,200
<b>TOTAL</b>	<b>-502,800</b>

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