



**RESERVOIR OPERATION AND SYSTEM STATUS FOR DECEMBER 2011**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 38.20 feet. Cairo stage was at 37.98 feet at the end of the month. A flood operation was conducted between the 29<sup>th</sup> of November and 20<sup>th</sup> of December due to wetter than normal weather in the lower Ohio Valley. Flood stage at Cairo is 40 feet.

**WEATHER** – A continuation of warmer and wetter than normal conditions sustained the early season flooding situation in the Ohio Valley during December. The most significant rainfall was at the beginning of the month with heavy rainfall from the 4<sup>th</sup> through the 8<sup>th</sup>. Significant rainfall was also observed on the 14<sup>th</sup> into the 15<sup>th</sup>, the 22<sup>nd</sup> through the 23<sup>rd</sup> and from the 26<sup>th</sup> through the 28<sup>th</sup>. Precipitation departures in the basin ranged from 0.38 inches below normal at Pittsburgh, PA to 3.15 inches above normal at Cincinnati, OH.

Temperature departures in the basin ranged from 3.4 degrees above normal at Nashville, TN to 6.2 degrees above normal at Indianapolis, IN.

**TEMPERATURE AND PRECIPITATION – DECEMBER 2011**

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	37.5	+5.1	2.47	-0.38
Charleston, WV	42.5	+5.1	3.43	+0.16
Columbus, OH	38.9	+5.4	5.44	+2.47
Cincinnati, OH	39.5	+5.4	6.52	+3.15

Louisville, KY	42.9	+5.0	5.21	+1.38
Indianapolis, IN	37.8	+6.2	5.10	+1.93
Evansville, IN	40.8	+5.2	6.04	+2.28
Nashville, TN	43.8	+3.4	4.25	+0.01

**STREAMFLOW** – The monthly average flows ranged from a low of 167% of normal at Pittsburgh, PA to a high of 268% of normal at Paducah, KY.

Daily flows ranged from a low of 100% of normal at Pittsburgh, PA and Huntington, WV to a high of 366% of normal at Louisville, KY.

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

**FLOW DATA – DECEMBER 2011**

STATION	AVERAGE MONTHLY FLOW  CUBIC FEET/SECOND	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
			HIGH	LOW
Pittsburgh, PA	63,000	167	264	100
Huntington, WV	156,000	194	331	100
Cincinnati, OH	215,000	215	332	118
Louisville, KY	279,000	255	366	128
Evansville, IN	341,000	254	356	136
Paducah, KY	659,000	268	331	170

**RESERVOIRS** – December began with 7.9 % utilization of the total system flood control storage and ended the month at 5.7 %. System-wide augmentation storage availability began the month at 95.5% and was at 94.4 % by the end of the month.

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

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	-91,900
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-131,600
Twelvepole-Big Sandy-Little Sandy-Scioto	-48,000
Little Miami-Licking-Mill Creek-Great Miami	-98,000
Kentucky-Salt-Green-Wabash	-88,800
Cumberland	-114,700
<b>TOTAL</b>	<b>-573,000</b>

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