

	<p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>10 – 02</u></p> <p>Date: 11 March 2010</p> <p>Prepared by: U.S. Army Engineer Division, Great Lakes and Ohio River, 550 Main St. #10032, Cincinnati, OH 45202-3222</p>
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RESERVOIR OPERATION AND SYSTEM STATUS FOR FEBRUARY 2010

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 46.43 feet. Cairo stage was at 30.64 feet at the end of the month. Flood stage at Cairo is 40 feet. The flood control operation that begun on 24 January was terminated on 16 February 2010 as the Cairo stage fell below 40 feet over the preceding weekend.

WEATHER – February was a historic month for cold and snowy winter weather in most of the Ohio Valley, especially near and north of the Ohio River as monthly snowfall records were broken in Columbus, OH; Cincinnati, OH; Pittsburgh, PA; and Charleston, WV. Three winter storms, on the 5th and 6th; the 9th and 10th; and the 15th and 16th produced most of the winter weather with heavy snowfall accumulations greater than six inches common with each event west of the Appalachians and snowfall measured in feet in the mountainous areas east. There were some light rain and mixed precipitation events later in the month as temperatures began to moderate. Precipitation departures in the basin ranged from 1.52 inches below normal at Evansville, IN to 0.85 inches above normal at Pittsburgh, PA.

Temperature departures in the basin ranged from 4.1 degrees below normal at Pittsburgh, PA to 7.2 degrees below normal at Cincinnati, OH.

TEMPERATURE AND PRECIPITATION – FEBRUARY 2010

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	26.4	-4.1	3.22	+0.85
Charleston, WV	30.6	-6.3	2.97	-0.22
Columbus, OH	26.7	-5.3	2.42	+0.22

Cincinnati, OH	26.9	-7.2	2.31	-0.44
Louisville, KY	30.9	-6.7	1.91	-1.34
Indianapolis, IN	26.0	-5.2	0.97	-1.44
Evansville, IN	29.9	-5.9	1.58	-1.52
Nashville, TN	34.4	-6.9	2.77	-0.92

STREAMFLOW – The monthly average flows ranged from a low of 62% of normal at Pittsburgh, PA to a high of 108% of normal at Paducah, KY. Daily flows ranged from a low of 31% of normal at Huntington, WV to a high of 176% of normal at Evansville, IN. The following table presents the flow data summary for the Ohio River Index Stations:

FLOW DATA – FEBRUARY 2010

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL			
		CUBIC FEET/SECOND	MONTHLY	DAILY	
				HIGH	LOW
Pittsburgh, PA	31,000	62	158	33	
Huntington, WV	93,000	72	128	31	
Cincinnati, OH	127,000	76	141	40	
Louisville, KY	169,000	87	168	44	
Evansville, IN	213,000	91	176	50	
Paducah, KY	512,000	108	149	55	

RESERVOIRS – February began with 5.8% utilization of the total system flood control storage and ended the month at 1.6%. System-wide augmentation storage availability began the month at 97.7% and was at 96.0% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-278,300
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-27,200
Twelvepole-Big Sandy-Little Sandy-Scioto	+1,800
Little Miami-Licking-Mill Creek-Great Miami	-43,900
Kentucky-Salt-Green-Wabash	-234,600
Cumberland	-623,300
TOTAL	-1,205,500

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