WATER MANAGEMENT MONTHLY REPORT

Information Exchange Bulletin

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RESERVOIR OPERATION AND SYSTEM STATUS FOR JANUARY 2010

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 40.32 feet, falling to a minimum of 18.62 feet before rising to a crest stage of 47.10 feet late on the 29th. The stage was 46.46 feet at the end of the month. Flood stage at Cairo is 40 feet. The December flood control operation was terminated on the 4th and a subsequent flood control operation began on the 24th.

WEATHER – January's weather was highly variable with several noteworthy storm events. It averaged drier than normal west and slightly wetter than normal east with colder than normal temperatures. Precipitation departures in the basin ranged from 1.26 inches below normal at Indianapolis, IN to 0.20 inches above normal at Pittsburgh, PA

Temperature departures in the basin ranged from 1.6 degrees below normal at Pittsburgh, PA to 3.8 degrees below normal at Nashville, TN.

A series of significant rainfall events from the 20th through the 25th during one of the few mild periods of the 2009-10 winter in the Ohio Valley led to increased flows along the rivers, eventually resulting in the flood control operation that started on the 24th.

Another notable weather event of the month was a winter storm that produced snowfall amounts up to 10 inches or more in the Ohio Valley south of the Ohio River from the 28th through the 31st. Snow fell all the way to the southern edge of the Ohio River basin in Alabama during this event.

TEMPERATURE AND PRECIPITATION – JANUARY 2010

	TEMPERATURE		PRECIPITATION	
STATION	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	25.9	-1.6	2.90	+0.20

Charleston, WV	30.1	-3.3	2.59	-0.66
Columbus, OH	26.0	-2.3	2.22	-0.31
Cincinnati, OH	26.8	-2.9	2.01	-0.91
Louisville, KY	30.1	-2.9	2.86	-0.42
Indianapolis, IN	24.6	-1.9	1.22	-1.26
Evansville, IN	27.8	-3.2	2.41	-0.50
Nashville, TN	33.0	-3.8	4.13	+0.16

STREAMFLOW – The monthly average flows ranged from a low of 90% of normal at Paducah, KY to a high of 119% of normal at Pittsburgh, PA. Daily flows ranged from a low of 26% of normal at Pittsburgh, PA to a high of 461% of normal at Pittsburgh, PA

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

FLOW DATA – JANUARY 2010

STATION	**AVERAGE MONTHLY FLOW**	**PERCENT LONG-TERM NORMAL**		
.	**CUBIC FEET/SECOND**	**MONTHLY**	**DAILY**	
.	.	.	HIGH	LOW
Pittsburgh, PA	51,000	119	461	26
Huntington, WV	123,000	109	311	24
Cincinnati, OH	150,000	110	269	31
Louisville, KY	170,000	101	234	31
Evansville, IN	178,000	93	209	29
Paducah, KY	355,000	90	171	30

RESERVOIRS – January began with 2.6% utilization of the total system flood control storage and ended the month at 5.8%. System-wide augmentation storage availability began the month at 95.9% and was at 97.7% by the end of the month.

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

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+180,800
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+14,900
Twelvepole-Big Sandy-Little Sandy-Scioto	+12,600
Little Miami-Licking-Mill Creek-Great Miami	+38,100
Kentucky-Salt-Green-Wabash	+182,000
Cumberland	+918,700
TOTAL	**1,347,100**

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