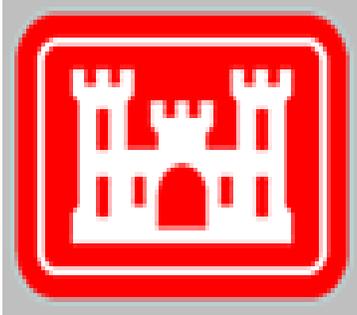


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|  | <p>WATER MANAGEMENT MONTHLY REPORT</p> <p><u>Information Exchange Bulletin</u></p> <p>Vol. No. <u>12 -06</u></p> <p>Date: 7 November 2012</p> <p>Prepared by: U.S. Army Engineer Division, Great Lakes and Ohio River, 550 Main St. #10032, Cincinnati, OH 45202-3222</p> |
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RESERVOIR OPERATION AND SYSTEM STATUS FOR SEPTEMBER 2012

HIGHLIGHTS – The Ohio River at Cairo began the month at a stage of 8.62 feet. Cairo stage was at 11.43 feet at the end of the month. The stage at Cairo fell as low as 7.32 feet on the 18th. Flood stage at Cairo is 40 feet. Navigation limitations along the Ohio River at Cairo due to low flow begin at 8.3 feet. Formal low flow coordination continued throughout September to improve navigation conditions and Olmsted construction along the lower Ohio River.

WEATHER – September was mainly cooler than normal overall in the Ohio Valley, despite some warmer than normal conditions during the first week. Precipitation was above normal, with rainfall from 100 to 200 percent of normal for the month, except in portions of southern and eastern Ohio and northwestern Pennsylvania. Significant rainfall was observed from the 1st into the 3rd in association with the remnants of Hurricane Isaac. Other important storms were on the 7th and 8th, the 17th through the 19th and from the 25th through the 28th. Precipitation departures in the basin ranged from 1.13 inches above normal at Columbus, OH to 4.61 inches above normal at Indianapolis, IN. Temperature departures in the basin ranged from 1.7 degrees below normal at Indianapolis, IN to 0.2 degrees below normal at Charleston, WV.

TEMPERATURE AND PRECIPITATION – SEPTEMBER 2012

| STATION | TEMPERATURE | | PRECIPITATION | |
|----------------|--------------------|-----------------------|-----------------|-----------------------|
| | OBSERVED DEGREES F | DEPARTURE FROM NORMAL | OBSERVED INCHES | DEPARTURE FROM NORMAL |
| Pittsburgh, PA | 63.6 | -0.5 | 4.80 | 1.69 |
| Charleston, WV | 67.1 | -0.2 | 4.63 | 1.38 |
| Columbus, OH | 65.8 | -1.1 | 3.97 | 1.13 |
| Cincinnati, OH | 66.1 | -1.5 | 7.18 | 4.45 |

| | | | | |
|------------------|------|------|------|------|
| Louisville, KY | 69.7 | -1.3 | 5.83 | 2.78 |
| Indianapolis, IN | 65.2 | -1.7 | 7.73 | 4.61 |
| Evansville, IN | 68.4 | -0.7 | 7.60 | 4.55 |
| Nashville, TN | 70.9 | -0.6 | 5.64 | 2.23 |

STREAMFLOW – The monthly average flows ranged from a low of 78% of normal at Evansville, IN to a high of 100% of normal at Huntington, WV and Paducah, KY.

Daily flows ranged from a low of 18% of normal at Huntington, WV to a high of 245% of normal also at Huntington, WV.

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

FLOW DATA – SEPTEMBER 2012

| STATION | AVERAGE MONTHLY FLOW CUBIC FEET/SECOND | PERCENT LONG-TERM NORMAL | | |
|----------------|---|-----------------------------|-------|-----|
| | | MONTHLY | DAILY | |
| | | | HIGH | LOW |
| Pittsburgh, PA | 8,500 | 84 | 193 | 42 |
| Huntington, WV | 32,000 | 100 | 245 | 18 |
| Cincinnati, OH | 46,000 | 95 | 210 | 31 |
| Louisville, KY | 50,000 | 92 | 170 | 34 |
| Evansville, IN | 45,000 | 78 | 150 | 20 |
| Paducah, KY | 106,000 | 100 | 150 | 70 |

RESERVOIRS – September began with 0.5% utilization of the total system flood control storage and ended the month at 1.3%. System-wide augmentation storage availability began the month at 84.4% and was 84.2% by the end of the month.

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

| CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM | (ACRE-FEET) |
|--|--------------------|
| Allegheny-Monongahela-Beaver | -146,100 |
| Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte | -28,700 |
| Twelvepole-Big Sandy-Little Sandy-Scioto | -5,200 |
| Little Miami-Licking-Mill Creek-Great Miami | -8,000 |
| Kentucky-Salt-Green-Wabash | 34,200 |
| Cumberland | -79,900 |
| TOTAL | -233,100 |

Prepared by:
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Great Lakes and Ohio River Division
U.S. Army Corps of Engineers