**WATER MANAGEMENT MONTHLY REPORT**

**Information Exchange Bulletin**

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## RESERVOIR OPERATION AND SYSTEM STATUS FOR FEBRUARY 2012

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 40.73 feet. Cairo stage was at 24.39 feet at the end of the month. Flood stage at Cairo is 40 feet. The lower Ohio-Mississippi flood operation ended on the 8th.

**WEATHER –** The Ohio Valley's weather remained warmer than normal in February with mostly drier than normal conditions. The consistent warmer than normal conditions throughout the meteorological winter months of December through February resulted in the fourth warmest winter on record for most of the Great Lakes and Ohio Valley. Precipitation departures in the basin ranged from 1.42 inches below normal at Evansville IN to 0.06 inches above normal at Charleston, WV. Precipitation was most common in the early part of the month through the 5th and the end of the month between the 20th and 29th but there was a significant dry period between the 6th and 19th.

Temperature departures in the basin ranged from 2.1 degrees above normal at Charleston, WV to 5.2 degrees above normal at Indianapolis, IN.

### TEMPERATURE AND PRECIPITATION – FEBRUARY 2012

| | TEMPERATURE | | PRECIPITATION | |
|---|---|---|---|---|
| STATION | OBSERVED DEGREES F | DEPARTURE FROM NORMAL | OBSERVED INCHES | DEPARTURE FROM NORMAL |
| Pittsburgh, PA | 35.4 | +4.3 | 2.24 | -0.15 |
| Charleston, WV | 39.8 | +2.1 | 3.25 | +0.06 |
| Columbus, OH | 36.9 | +4.1 | 1.89 | -0.36 |
| Cincinnati, OH | 38.3 | +3.8 | 1.54 | -1.27 |

| | | | | |
|---|---|---|---|---|
| Louisville, KY | 42.3 | +3.5 | 1.68 | -1.50 |
| Indianapolis, IN | 37.3 | +5.2 | 1.38 | -0.94 |
| Evansville, IN | 40.5 | +3.9 | 1.75 | -1.42 |
| Nashville, TN | 45.7 | +4.0 | 2.81 | -1.13 |

**STREAMFLOW** – The monthly average flows ranged from a low of 74% of normal at Huntington, WV to a high of 88% of normal at Paducah, KY.

Daily flows ranged from a low of 42% of normal at Louisville, KY to a high of 176% of normal also at Louisville, KY.

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

**FLOW DATA – FEBRUARY 2012**

| **STATION** | **AVERAGE MONTHLY FLOW** | **PERCENT LONG-TERM NORMAL** | | |
|---|---|---|---|---|
| . | **CUBIC FEET/SECOND** | **MONTHLY** | **DAILY** | |
| . | . | . | HIGH | LOW |
| Pittsburgh, PA | 39,000 | 80 | 161 | 44 |
| Huntington, WV | 96,000 | 74 | 137 | 47 |
| Cincinnati, OH | 133,000 | 80 | 157 | 45 |
| Louisville, KY | 159,000 | 82 | 177 | 42 |
| Evansville, IN | 191,000 | 82 | 174 | 46 |
| Paducah, KY | 418,000 | 88 | 159 | 51 |

**RESERVOIRS** – February began with 6.4% utilization of the total system flood control storage and ended the month at 2.8%. System-wide augmentation storage availability began the month at 95.7% and was 96.6 % by the end of the month.

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

| CHANGE IN STORAGE<br>TRIBUTARY-RESERVOIR SUBSYSTEM | (ACRE-FEET) |
|---|---|
| Allegheny-Monongahela-Beaver | -64,500 |
| Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte | -106,200 |
| Twelvepole-Big Sandy-Little Sandy-Scioto | -48,400 |
| Little Miami-Licking-Mill Creek-Great Miami | -41,600 |
| Kentucky-Salt-Green-Wabash | -289,100 |
| Cumberland | -358,900 |
| **TOTAL** | **-908,700** |

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