WEATHER SUMMARY/OUTLOOK

Created July 9, 2012
Austin Pearson
Indiana State Climate Office
• Locations in Indiana range from three to thirteen inches below normal for precipitation for the year so far...
MARCH 2012 THROUGH JULY 8 PRECIPITATION

For the growing season alone... Indiana is three to twelve inches below normal for precipitation.
All of Indiana from July 2 – 8 was below normal for precipitation. Rainfall from 0.01” to as much as 0.75” was recorded.
Multi-sensor Precipitation: Observed (inches)
7-Day Period Ending the Morning of 7/8/2012

- > 10.0
- 8.0 to 10.0
- 6.0 to 8.0
- 5.0 to 6.0
- 4.0 to 5.0
- 3.0 to 4.0
- 2.5 to 3.0
- 2.0 to 2.5
- 1.5 to 2.0
- 1.0 to 1.5
- 0.75 to 1.00
- 0.50 to 0.75
- 0.25 to 0.50
- 0.10 to 0.25
- 0.01 to 0.10
- < 0.01 (Not Shown)
- Missing Data

Midwestern Regional Climate Center
Above normal temperatures were observed in the whole state of Indiana.
SURFACE TEMPERATURE

<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>Color</th>
<th>State/Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>-10 - 0</td>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>0 - 10</td>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>10 - 20</td>
<td>Yellow</td>
<td></td>
</tr>
<tr>
<td>20 - 30</td>
<td>Orange</td>
<td></td>
</tr>
<tr>
<td>30 - 40</td>
<td>Red</td>
<td></td>
</tr>
<tr>
<td>40 - 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 - 60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60 - 70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70 - 80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80 - 90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90 - 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 - 110</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; 110</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date: 2012/07/08
• Drier soils appear to be less green.
SOIL MOISTURE

- Soil Moisture is between -1 and 0 inches in the southern half of Indiana and from 0 to 1 inches in northern Indiana.
• Most stations are showing that they are below normal for stream flow...

• Dry conditions
**U.S. Drought Monitor**

**Indiana**

<table>
<thead>
<tr>
<th>Drought Conditions (Percent Area)</th>
<th>None</th>
<th>D0-D4</th>
<th>D1-D4</th>
<th>D2-D4</th>
<th>D3-D4</th>
<th>D4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>0.00</td>
<td>100.00</td>
<td>89.02</td>
<td>68.84</td>
<td>23.46</td>
<td>0.00</td>
</tr>
<tr>
<td>Last Week (06/26/2012 map)</td>
<td>0.14</td>
<td>99.86</td>
<td>87.03</td>
<td>68.58</td>
<td>23.46</td>
<td>0.00</td>
</tr>
<tr>
<td>3 Months Ago (04/03/2012 map)</td>
<td>88.91</td>
<td>11.09</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Start of Calendar Year (12/27/2011 map)</td>
<td>100.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Start of Water Year (09/27/2011 map)</td>
<td>55.11</td>
<td>44.89</td>
<td>6.08</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>One Year Ago (06/28/2011 map)</td>
<td>100.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Intensity:**
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

[http://droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)
Crop Moisture Index by Division
Weekly Value for Period Ending JUN 30, 2012
Short Term Need vs. Available Water in a Shallow Soil Profile

-3.0 or less (Severely Dry)
-2.0 to -2.9 (Excessively Dry)
-1.0 to -1.9 (Abnormally Dry)
-0.9 to +0.9 (Slightly Dry/Favorably Moist)
+0.9 to +1.9 (Abnormally Moist)
+2.0 to +2.9 (Wet)
+3.0 and above (Excessively Wet)
DROUGHT SEVERITY INDEX

Palmer Drought Severity Index
June, 2012

National Climatic Data Center, NOAA
Objective Short-Term Drought Indicator Blend Percentiles

June 23, 2012

Percentile (D0-to-D4 equivalent)
- 0 to 2 (D4): 0 to 2
- 2 to 5 (D3): 30 to 70
- 5 to 10 (D2): 40 to 90
- 10 to 20 (D1): 90 to 95
- 20 to 30 (D0): 95 to 100

Inputs (as percentiles):
- 35% Palmer Z-Index
- 25% 3-Month Precipitation
- 20% 1-Month Precipitation
- 13% CPC Soil Moisture Model
- 7% Palmer Drought Index

This map approximates impacts that respond to precipitation over several days to a few months, such as agriculture, topsoil moisture, unregulated streamflows, and most aspects of wildfire danger. The relationship between indicators and impacts can vary significantly with location and season. Do not interpret this map too literally.

This map is based on preliminary climate division data. Local conditions and/or final data may differ. See the detailed product suite description for more details.
LONG-TERM DROUGHT INDICATOR

Objective Long-Term Drought Indicator Blend Percentiles
June 23, 2012

This map approximates impacts responding to precipitation over the course of several months to a few years, such as reservoir content, groundwater, and lake levels. HOWEVER, THE RELATIONSHIP BETWEEN INDICATORS AND WATER SUPPLIES CAN VARY MARKEDLY WITH LOCATION, SEASON, SOURCE, AND MANAGEMENT PRACTICE. Do not interpret this map too literally.

This map is based on preliminary climate division data. Local conditions and/or final data may differ. See the detailed product suite description for more details.
6 to 10 day outlook

Temperature

Above normal temperatures and slightly below normal precipitation for next 6 to 10 days...

Precipitation

Image from: Climate Prediction Center
Above Normal Temperatures are expected. Slightly below normal precipitation is expected for all of Indiana.

Image from: Climate Prediction Center
Over the next month, temperatures are expected to be above normal. Precipitation looks to be below normal for much of the Midwest.

Image from: Climate Prediction Center
Throughout the next three months... above normal temperatures are expected. There are equal chances of below normal, or normal for precipitation for much of the Midwest.

Image from: Climate Prediction Center
U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for Jul 5 - September 30, 2012
Released Jul 5, 2012

KEY:
- Drought to persist or intensify
- Drought ongoing, some improvement
- Drought likely to improve, impacts ease
- Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.