Water Resources Bulletin, 02/12/2021– page 1

PANHANDLE 0.29" -0.35" 45% 43rd driest
NORTH CENTRAL 1.42" +0.38" 137% 20th wettest
NORTHEAST 2.13" +0.35" 120% 29th wettest
WEST CENTRAL 1.30" +0.30" 130% 24th wettest
CENTRAL 1.21" -0.37" 76% 46th wettest
EAST CENTRAL 1.87" -0.51" 78% 48th driest
SOUTHWEST 0.57" -0.67" 46% 38th driest
SOUTH CENTRAL 1.18" -0.90" 57% 32nd driest
SOUTHEAST 1.66" -1.48" 53% 25th driest
STATEWIDE 1.29" -0.35" 79% 49th driest

The Fractional Water Index ranges from very dry soil having a value of 0 to soil at field capacity illustrated by a value of 1.

[1.0-0.8 = Enhanced Growth; 0.8-0.5 = Limited Growth; 0.5-0.3 = Plants Wilting; 0.3-0.1 = Plants Dying; <0.1 = Barren Soil.]
Drought Indices

Palmer Drought Severity Index (PDSI)  

<table>
<thead>
<tr>
<th>Climate Division</th>
<th>Status</th>
<th>Value 02/06/21</th>
<th>Change in Value</th>
<th>Standardized Precipitation Index (SPI) Through January 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>NORTHWEST</td>
<td>Near Normal</td>
<td>-1.41</td>
<td>-0.22</td>
<td>3-month Normal</td>
</tr>
<tr>
<td>NORTH CENTRAL</td>
<td>Very Moist Sp</td>
<td>2.45</td>
<td>3.54</td>
<td>12-month Moderately Dry</td>
</tr>
<tr>
<td>NORTHEAST</td>
<td>Unusual Moist Spell</td>
<td>1.08</td>
<td>2.46</td>
<td>24-month Abnormally Moist</td>
</tr>
<tr>
<td>WEST CENTRAL</td>
<td>Near Normal</td>
<td>-1.20</td>
<td>1.05</td>
<td>3-month Abnormally Moist</td>
</tr>
<tr>
<td>CENTRAL</td>
<td>Very Moist Sp</td>
<td>2.43</td>
<td>3.12</td>
<td>12-month Near Normal</td>
</tr>
<tr>
<td>EAST CENTRAL</td>
<td>Very Moist Sp</td>
<td>3.43</td>
<td>3.32</td>
<td>24-month Abnormally Moist</td>
</tr>
<tr>
<td>SOUTHWEST</td>
<td>Near Normal</td>
<td>0.36</td>
<td>0.71</td>
<td>3-month Near Normal</td>
</tr>
<tr>
<td>SOUTHEAST</td>
<td>Very Moist Sp</td>
<td>1.74</td>
<td>1.76</td>
<td>12-month Near Normal</td>
</tr>
<tr>
<td>SOUTHEAST</td>
<td>Very Moist Sp</td>
<td>3.89</td>
<td>3.48</td>
<td>24-month Near Normal</td>
</tr>
</tbody>
</table>

The PDSI is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland, spanning from -10 (dry) to +10 (wet). According to the latest PDSI, as of February 12, all of the state’s climate regions were near normal or wetter.

The SPI provides a comparison of precipitation over several specified periods with totals from the same periods for all years included in the historical record. For all three time periods shown, all climate regions were Near Normal or wetter, except for the Northwest region, which was Moderately Dry for the 12-month period.

Keetch-Byram Drought Fire Index

The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires. KBDI values of 600 and above are often associated with more severe drought and increased wildfire occurrence.

Streamflow Conditions

Real-time streamflow on February 12, 2021, at 2:30 p.m. compared to historical streamflow for this day of the year.

Visit waterwatch.usgs.gov for additional real-time streamflow information.
According to the latest U.S. Drought Monitor, as of February 9, 2021, the estimated Oklahoma population living in areas experiencing drought was 72,152, with .23% of the state in area experiencing Extreme Drought (D3) conditions, 4.17% experiencing Severe Drought (D2) or worse conditions, and 11.22% experiencing Moderate Drought (D1) conditions or worse. A total of 27.3% of the state had Abnormally Dry (D0) conditions or worse.

The contours on the maps above show the total probability of three categories. “Above” is indicated by the letter “A”, “Below” is indicated by the letter “B”, “EC” indicates “Equal Chances” for A or B.
Oklahoma Surface Water Resources
Reservoir Levels and Storage as of 2/8/2021

Reservoir Storage
(Percent of Normal Pool Storage as of 2/8/2021)
- > 100%
- 100% - 90%
- 90% - 80%
- 80% - 70%
- 70% - 60%
- 60% - 50%
- 50% - 40%
- 40% - 30%
- 30% - 20%
- < 20%

Reservoir Levels
Positive number indicates the lake level in feet, above the normal pool elevation
Negative number indicates the lake level in feet, below the normal pool elevation

This map shows reservoir storage as a percentage of normal pool storage capacity. The source information was collected from real-time lake gages monitored by the U.S. Army Corps of Engineers (http://www.swt-wc.usace.army.mil/Daily_Morning_Reservoir_Report.pdf), and the U.S. Geological Survey (http://waterdata.usgs.gov/ok/nwis/current/?type=lake&group_key=basin_cd). For more information please visit the OWRB’s website at: (http://www.owrb.ok.gov)