Severe to Extreme Drought in Parts of Eastern NE and Western IA

*This product will be updated weekly through the end of the growing season.

**Synopsis:**

-Drought conditions continue to worsen in northeast Nebraska and east-central Nebraska, thus D2 (Severe Drought) has been expanded in these areas.

-Extreme drought conditions (D3) persist in west central Iowa, in Shelby county.

-Moderate drought (D1) conditions persist across much of northeast Nebraska and western and southwest Iowa.

**Abnormally Dry (D0):**
Going into drought: short-term dryness slowing planting, growth of crops or pastures; fire risk above average.

**Moderate Drought (D1):**
Some damage to crops, pastures; fire risk high; streams, reservoirs, or wells low, some water shortages developing or imminent.

**Severe Drought (D2):**
Crop or pasture losses likely; fire risk very high; water shortages common; water restrictions imposed.

**Extreme Drought (D3):**
Major crop/pasture losses; extreme fire danger; widespread water shortages or restrictions.
Two Week Comparison:

**August 27th**

- Lincoln
- Omaha
- Norfolk

**August 20th**

- Lincoln
- Omaha
- Norfolk

US Drought Monitor

**Intensity:**
- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought
Local & State Actions:

**Nebraska**: Burt, Colfax, Cuming, Dodge, Douglas, Madison, Pierce, Platte, Sarpy, Stanton, Thurston, Washington, and Wayne Counties have authorized emergency haying and grazing use of Conservation Reserve Program (CRP)

**Iowa**: Monona, Pottawattamie, Shelby, and Harrison Counties have authorized emergency haying and grazing use of Conservation Reserve Program (CRP)

Additional information concerning the drought can be obtained via the
Additional information at Department of National Resources: [https://dnr.nebraska.gov/index](https://dnr.nebraska.gov/index)
Additional information about federal disaster declarations due to the drought and drought assistance information can be found at the farm service agency web site at: [www.fsa.usda.gov](http://www.fsa.usda.gov)

Soil Moisture Conditions:

![Calculated Soil Moisture Anomaly (mm) Aug 25, 2020](image)

**Nebraska** - *Topsoil* moisture was rated as 40% short and 24% very short. *Subsoil* moisture was rated as 36% short and 21% very short.

**Iowa** - *Topsoil* moisture was rated as 45% short and 31% very short. *Subsoil* moisture was rated as 43% short and 28% very short.

Agricultural Impacts:

**Nebraska** - As of August 23rd
- Corn: 13% poor or very poor
- Soybean: 11% poor or very poor
- Sorghum: 11% poor or very poor
- Winter wheat: not available
- Oats: not available
- Pasture: 31% poor or very poor

**Iowa** - As of August 24th
- Corn: 21% poor or very poor
- Soybean: 13% poor or very poor
- Hay: 5 days ahead of average
- Oats: Complete
- Pasture: 39% poor or very poor

More info at the United States Department of Agriculture (USDA) National Agricultural Statistics Service NASS:

Water Restrictions:

None known

Fire Danger:

Keetch-Byram Drought Index: 26-Aug-20

<table>
<thead>
<tr>
<th>KBDI Value</th>
<th>Description of Fire Potential</th>
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<tbody>
<tr>
<td>0-200</td>
<td>Low - Wet with little danger of fire initiation</td>
</tr>
<tr>
<td>201-300</td>
<td>Moderate - Drying occurring with some fire danger</td>
</tr>
<tr>
<td>301-400</td>
<td>High - Ground cover dry and will burn readily</td>
</tr>
<tr>
<td>401-500</td>
<td>Extreme - Dead and live fuels will burn readily</td>
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</tbody>
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http://www.wfas.net/images/firedanger/kbdi.png
River and Streamflow Conditions:

Hourly and forecast river stages out to 90 days can be found at the National Weather Service’s (NWS) Advanced Hydrologic Prediction Service (AHPS) web page:

Additional Current stream and river stages may be viewed at the following USGS Web Site:
http://waterwatch.usgs.gov/

-A majority of the river gauges across eastern Nebraska and wester Iowa indicate near normal streamflow for this time of year
Local Climatology:

30 Day Rainfall Departure from Normal

- 0.5 to 3 inches below normal across most of eastern Nebraska and western Iowa

6 Month Rainfall Departure from Normal

- 2 to 6 inches above normal in southeast Nebraska
- 4 to 6 inches below normal in east-central Nebraska, northeast Nebraska, and western Iowa
- 8+ inches below normal in parts of central and western Iowa and east-central Nebraska
Precipitation & Temperature Outlooks:

50% chances of below normal temperatures and 33-40% chance for drier than normal for the first week of September. Equal chances of above or below normal temperatures are expected for the month of September. 33% chance of below normal precipitation is expected in September. Above normal temperatures are expected and equal chances of above or below normal precipitation is expected for the fall season.
Questions and/or Comments:

If you have any questions or comments about the information in this document please contact:

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Related Websites:
NWS - http://www.weather.gov/oax
Drought Monitor: http://droughtmonitor.unl.edu/
https://www.drought.gov/drought/
USGS - http://water.usgs.gov/