

WEB SERVICES FOR CLIMATE DSS

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Vision

- ***Nationally consistent core*** web page content for
 - Drought
 - ENSO
 - Freeze
- Value add with ***unique locally available information***
- Supports planning and operations
- Focused toward a broad set of users
- Engages our partners



Drought

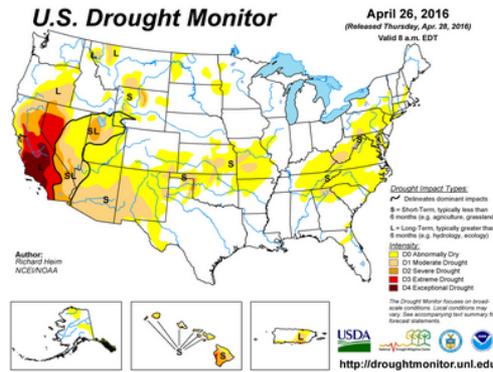
[Current Hazards](#)
[Current Conditions](#)
[Radar](#)
[Forecasts](#)
[Rivers and Lakes](#)
[Climate and Past Weather](#)
[Local Information](#)

NWS La Crosse Drought Monitoring Page

Any drought related questions e-mail [Jeff Boyne](mailto:Jeff.Boyne@noaa.gov)

National Drought Situation:

The map below is from the [U.S. Drought Monitor](#). It shows the latest drought conditions across the United States.



The categories of drought are defined as follows:

Abnormally Dry (D0) - Going into drought: short-term dryness slowing planting, growth of crops or pastures; fire risk above average. Coming out of drought: some lingering water deficits; pastures or crops not fully recovered.

Moderate Drought (D1) - Some damage to crops, pastures; fire risk high; streams, reservoirs, or wells low, some water shortages developing or imminent, voluntary water use restrictions requested.

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.

Exceptional Drought (D4) - Exceptional and widespread crop/pasture losses; exceptional fire risk; shortages of water in reservoirs, streams, and wells, creating water emergencies.

The [U.S. Drought Monitor](#) is a weekly collaborative effort between a number of federal agencies including NOAA/NWS, U.S. Department of Agriculture and the National Drought Mitigation Center. The data cutoff is Tuesdays at 6 AM Central Standard Time and the product is updated weekly on Thursdays at 7:30 AM Central Time.

For those needing to look at past U.S. Drought Monitors an archive is available back to May 20, 1999. This information can be found at the following [link](#).

Local Drought Situation:

The maps below are compliments of the [U.S. Drought Monitor](#) and they show the current drought conditions across Iowa, Minnesota, and Wisconsin.



Climatological Summary:



Drought

- National Drought Monitor and Local Depictions
 - Local Drought Statement
 - Climate Summary
 - WPC 7-day QPF
 - CPC Outlooks (Drought and Week 2 > Seasonal)
-

- Soil Moisture
- Stream Flow / Groundwater
- Fire Danger
- Ag Impacts



ENSO



Wichita

El Niño-Southern Oscillation (ENSO)

Current Conditions

What is El Niño-Southern Oscillation (ENSO)?

Temperature/Precipitation Anomalies

El Niño: Risk of Extremes

La Niña: Risk of Extremes

Agricultural Impacts

Long-Range Outlooks

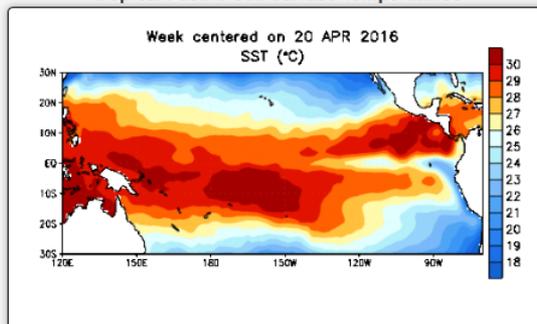
Spring Storm Impacts

Additional Resources

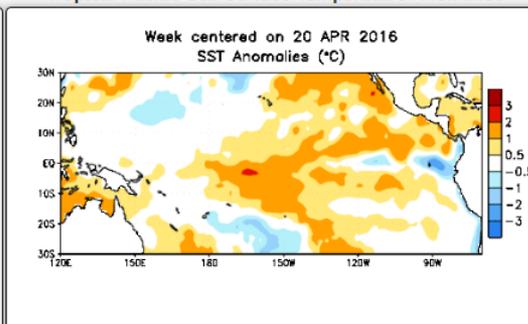
Current Conditions

- El Niño conditions are currently waning.
- A transition to ENSO-neutral conditions is likely by late spring and early summer.
- There is a 60% chance of La Niña conditions developing by late summer and fall, increasing to 70% by fall and early winter.
- A La Niña watch is in effect.

Tropical Pacific Sea Surface Temperatures



Tropical Pacific Sea Surface Temperature Anomalies



Tropical Pacific sea surface temperatures (left image) and associated anomalies (right image). Notice the unusually warm strip of sea surface temperatures oriented west to east across the central and eastern equatorial Pacific Ocean (right image), typical of El Niño conditions. Click images to enlarge. [Images courtesy of the Climate Prediction Center.](#)

Quick Facts

- Moderate to strong El Niño/La Niña episodes pose a greater chance of affecting Kansas weather compared to weak episodes.
- Meaningful impacts for Kansas are most common from late fall through spring.



ENSO

- Current Conditions
 - Definition / Background
 - National Impacts on Temperature and Precipitation
 - CPC Monthly and Seasonal Outlooks
-
- Local Impacts to Temperature and Precipitation
 - Severe / Winter Weather Linkages
 - Sectoral Impacts (e.g., agriculture, water supply, energy)



Freeze

Frost/Freeze Decision Support Page

Weather.gov > Quad Cities, IA/IL > Frost/Freeze Decision Support Page

Quad Cities, IA/IL

Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Information](#)

For your current temperature, enter your "City, ST" in the "Customize Your Weather.gov" box to the left.

7- Day Low Temperature Forecasts

Purple and Dark Blue colors = 20s & Lower 30s



Day 1



Day 2



Day 3



Day 4



Day 5



Day 6



Day 7



Watches / Warnings
& Advisories

Observed
Temps

Forecast
Graphs

Spring
Freeze

Fall
Freeze

Temp
Outlooks

QCA Spring
Report

QCA Fall
Report

Freeze Watches - Freeze Warnings - Frost Advisories - Special Weather Statement

Local Watches & Warnings

Click on the links below for text products.



Freeze

- 7-day Minimum Temperature Forecasts
 - Forecast Meteograms T, Td, Wind, Clouds
 - Watch / Warnings / Advisories Map and Text
 - CPC Week 2 Temperature Outlook
 - Overnight Observed Low Temperatures
-
- NCEI, RCC or SC Spring/Fall Freeze Normals, Probabilities and Records
 - Maps and Tables
 - Various thresholds – 32°F, 28°F, 24°F



Thanks to...

- Jeff Boyne, La Crosse – Drought
 - <http://www.weather.gov/arx/droughtmonitoring>
- Andy Kleinsasser, Wichita – ENSO
 - <http://www.weather.gov/ict/enso>
- Tom Philip, Davenport – Freeze
 - <http://www.weather.gov/dvn/freeze>

