MAC-T Monthly Call
Midwest Agriculture and Climate Team

September 14th, 2022

For more information:
Dennis.todey@usda.gov

USDA Midwest Climate Hub
U.S. DEPARTMENT OF AGRICULTURE
Below average for most of western/central region

2” or less in Plains, 4” in parts of cornbelt

Central western plains and scattered eastern cornbelt 150% or more
• Gradient of warmest in south, in high 70s, to mid-60s in north
• Reverse of departure – above normal temps in upper Plains, near normal to couple degrees below in south
Soil Moisture

Drying spread over Plains into IA
Driest soils in Dakotas/central plains & IA/MN
Pocket along WI/MI border
Different views pending product.

Both percentile maps
- Upper – whole profile
- Lower – top 100 cm (~40"")

https://www.cpc.ncep.noaa.gov/products/Drought/Monitoring/smp_new.shtml#
https://weather.msfc.nasa.gov/sport/case_studies/lis_CONUS.html
- Dry Plains into IA
- Eastern cornbelt close to norm

https://psl.noaa.gov/eddi/#current_conditions
Overall worst conditions in Plains into NW IA.

Large coverage increases throughout Midwest.

https://psl.noaa.gov/eddi/#current_conditions

https://quickdri.unl.edu/
Drought in the Midwest

- Severe drought across Plains into IA and MO
- Abnormal dryness and small areas of drought east

http://droughtmonitor.unl.edu/
Corn progress (NASS):
- Good to Excellent – National 53% (-5%)
- Mature – National 25% (-5%).

NASS Corn Conditions worse in Plains
Ahead in lower Plains, behind for most other states
Soybean progress (NASS):
- Good to Excellent - National 56% (-1%)
- Dropping Leaves - National 22% (-6%)

Soybean Condition worsening
Delayed for most states, ahead in SE region
Sorghum Conditions (NASS):
- Good to Excellent – National 20% (-37%)
- Mature – National 36% (+1%)

Sorghum conditions close to worst last 20 years.
Pasture/Range Conditions (NASS)

Pasture and Range Conditions
Percent Poor to Very Poor
September 11, 2022

National Condition
Poor to Very Poor  41
Change from Last Year  -1

Pasture-Range P-VP (NASS): National 41% (-1%)
Soil Moisture (NASS)

Topsoil Moisture
Percent Short to Very Short
Week Ending - September 11, 2022

Pasture-Range P-VP (NASS): National 49% (±%0)
Assorted AG Issues

• Lack of precipitation and high ET rates quickly increasing stress on crops

• Pockets of rain have helped some areas – excess in a few places

• Corn – soybean stress showing in some areas

• Crop progress still behind though closer in places east.
1-7 Day Precip

Next 7 days
• Most active in central north, somewhat in Plains
• Little chances in srn states

http://www.wpc.ncep.noaa.gov/qpf/day1-7.shtml
Temperature Outlook

- Warm more likely for full region
- More likely in cornbelt
Precipitation Outlook

- Below average more likely whole region
- Higher chances below in nrn Plains.

http://www.cpc.ncep.noaa.gov/
Other Risks

- Extreme high temperatures in west US (not pictured)
- Slight chances of large amounts of rain over eastern cornbelt
1-Month Outlook

August Monthly Outlook

- Continued above average temperatures, increasingly in western region.
- Likely below average rainfall for high Plains and northern states, with equal chances in south.

http://www.cpc.ncep.noaa.gov/
September-November Outlook

- Still La Niña pattern – also soil moisture and computer model influence
- Leaning towards warmer most of region, more likely in southern states.
- Slight chance toward drier most of region. EC north.

- Drought in Plains likely to remain and spread
- Low chances of early freeze for Fall harvest

http://www.cpc.ncep.noaa.gov/
Drought in the Midwest/Plains

- September 2022 outlook
- Projected spread into Dakotas and further south in NE and IA
- Drought persists for Plains, IA, MN
- Minor recovery in far south MO
Summary

- Some isolated heavier rain, but still much dryness central-west.
- Crop conditions reflect issues. Worst plains, slightly better east. Central corn belt best.
- Warmer-drier still most likely for region
- Generally look good for most harvest
- Could be problems winter grains west and cover crops.
Next MAC-T Monthly Call

Next Call
October 5, 2022, 9-10am CT