

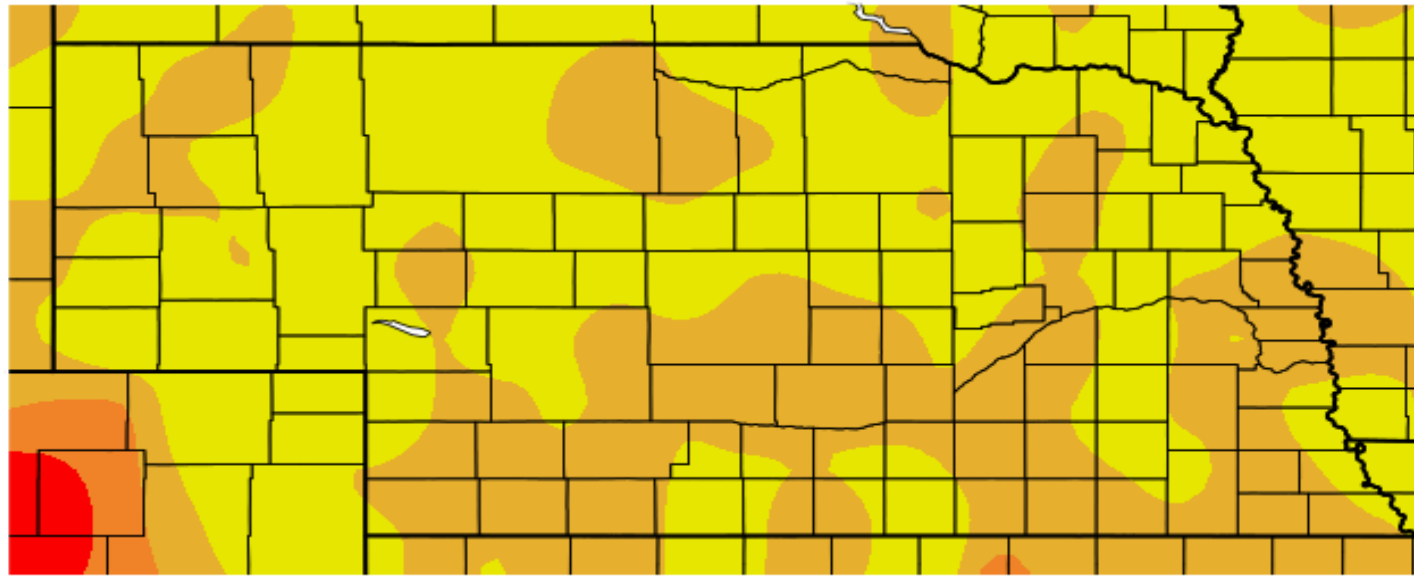
Nebraska Climate Update

Climate Assessment Response Committee

Allen Dutcher
Agricultural Extension Climatologist
Nebraska State Climate Office

Fall Temperature Trend

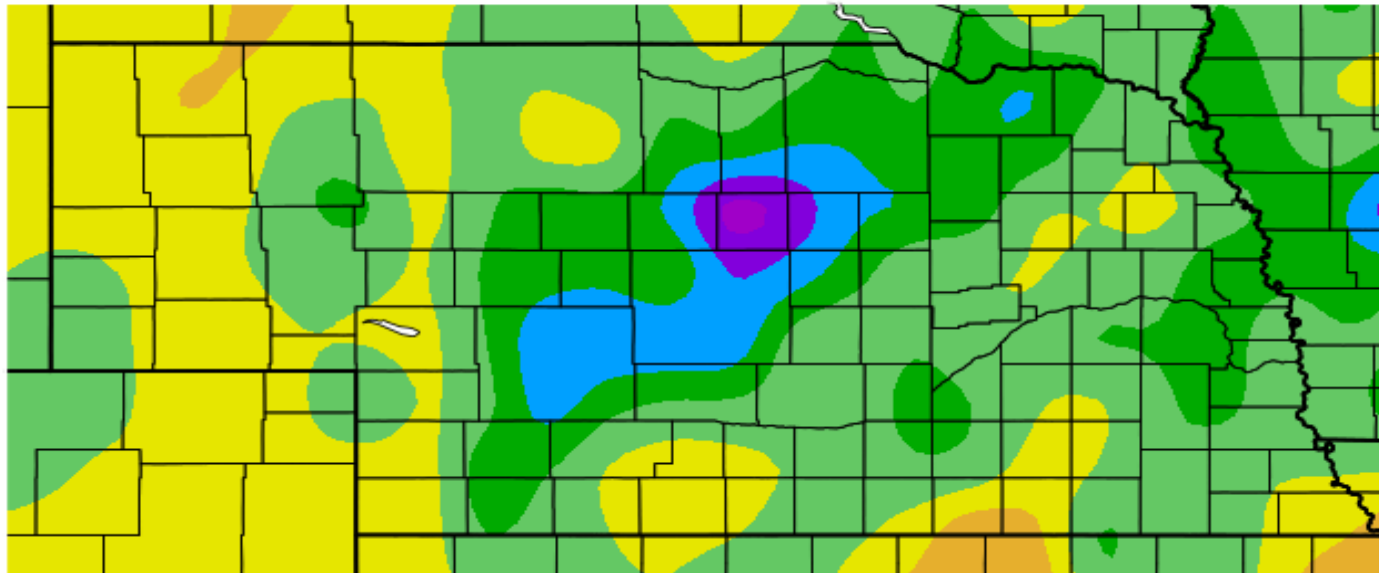
Departure from Normal Temperature (F)
9/1/2017 – 11/30/2017



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Fall Precipitation Trend

Departure from Normal Precipitation (in)
9/1/2017 – 11/30/2017



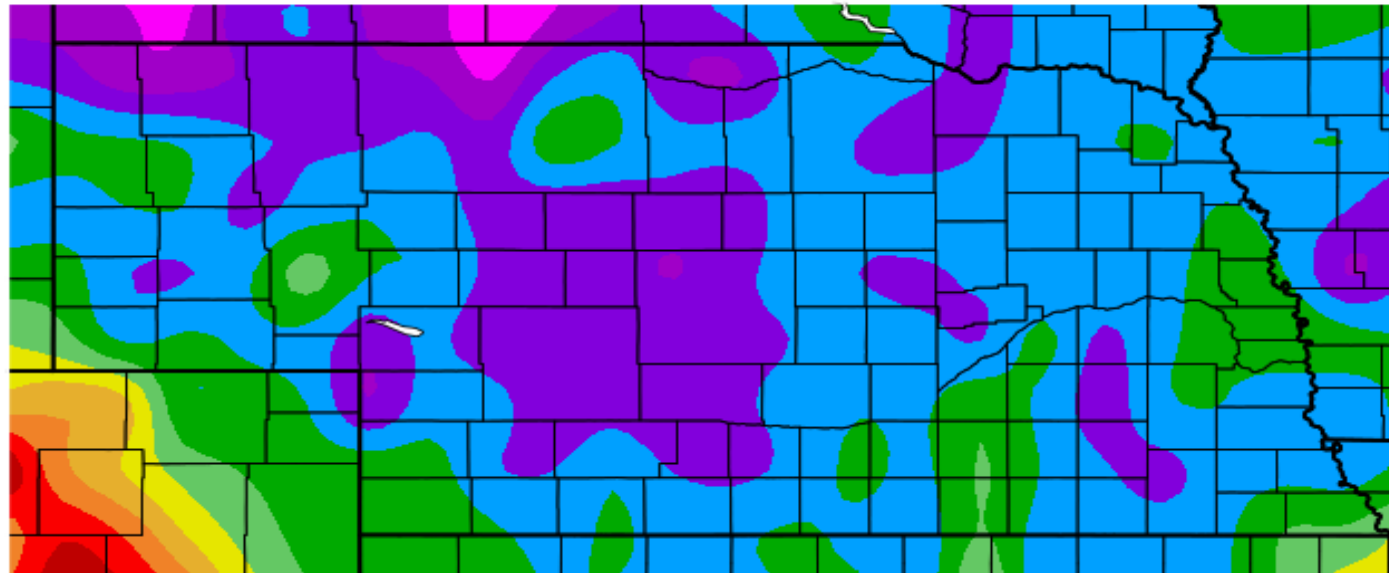
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Fall Highlights

- Warm October allowed crops to catch up after cold August. Significant yield boost to corn
- Very wet conditions Mid-September through early October. Good start to soil moisture recharge
- Dry and warm conditions mid-October through November
- Large wind outbreak third full week of October. Significant ear drop issues.
- Increased tillage activity. Weed pressure, down corn, headland compaction

Winter Temperature Trend

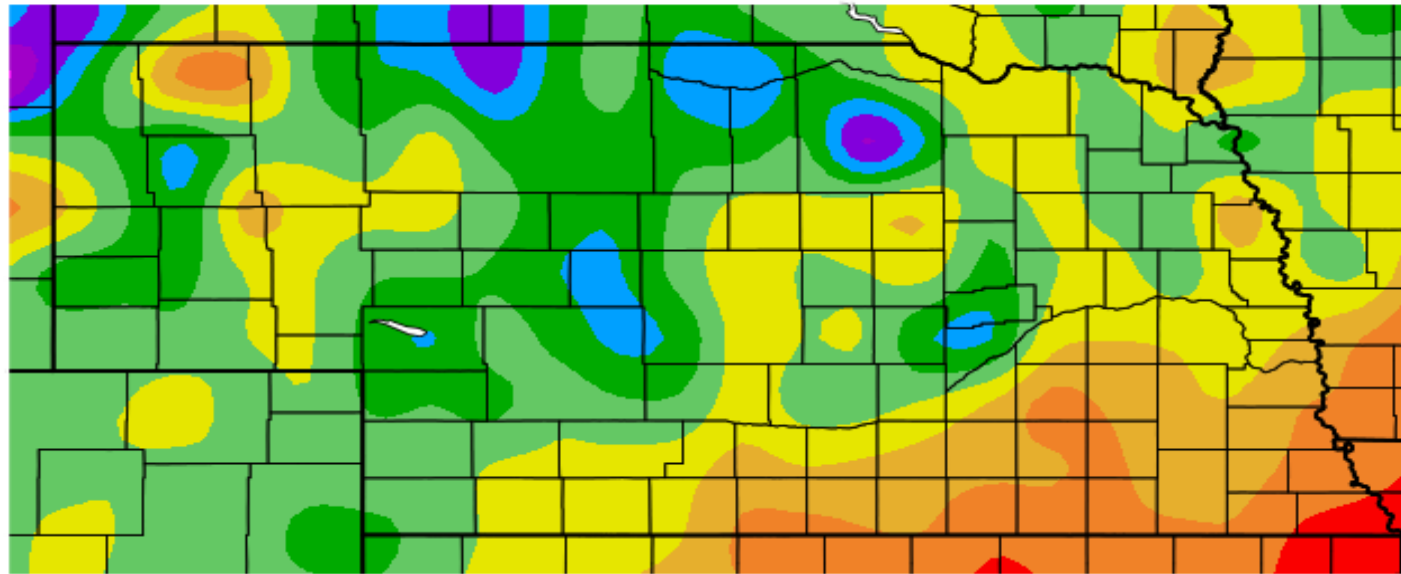
Departure from Normal Temperature (F)
12/1/2017 – 2/28/2018



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Winter Precipitation Trend

Departure from Normal Precipitation (in)
12/1/2017 – 2/28/2018



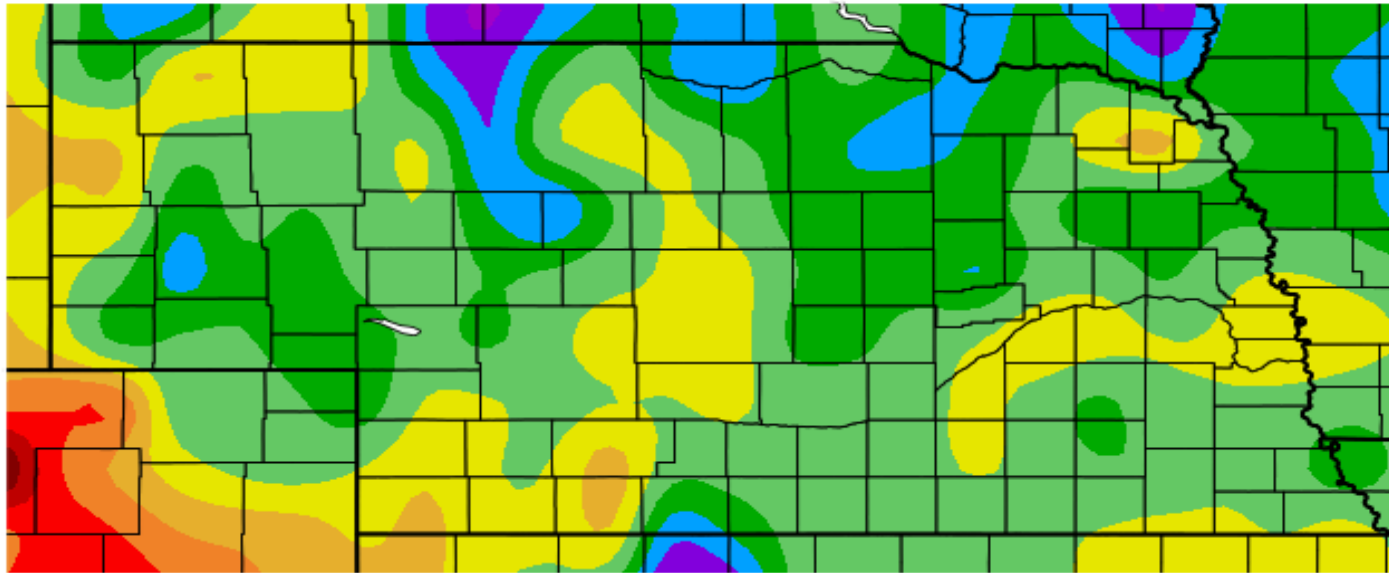
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Winter Highlights

- Well above normal temperatures first 3 weeks of December
- Bitter cold temperatures dominate through the end of February
- Strong snow event southwest though northeast Nebraska mid-January
- Numerous Arctic intrusion events and light snow events with little moisture
- Deep frost penetration
- Delayed green up of pastures, hay stockpiles short due to supplemental feeding

Spring Temperature Trend

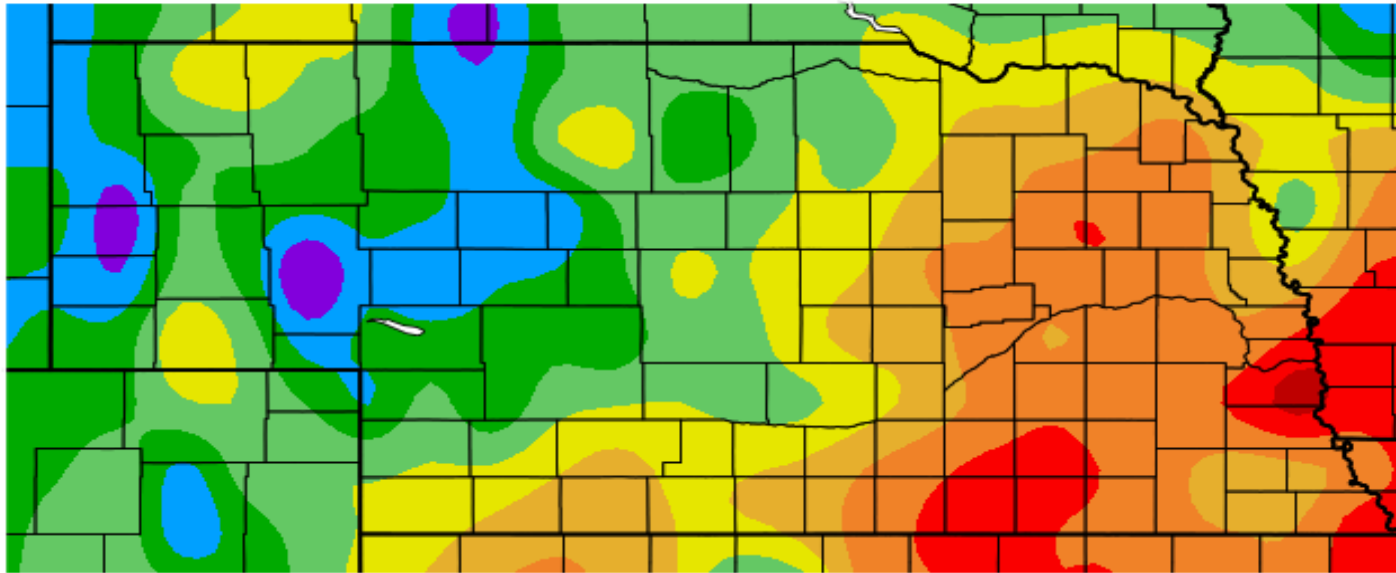
Departure from Normal Temperature (F)
3/1/2018 – 5/31/2018



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Spring Precipitation Trend

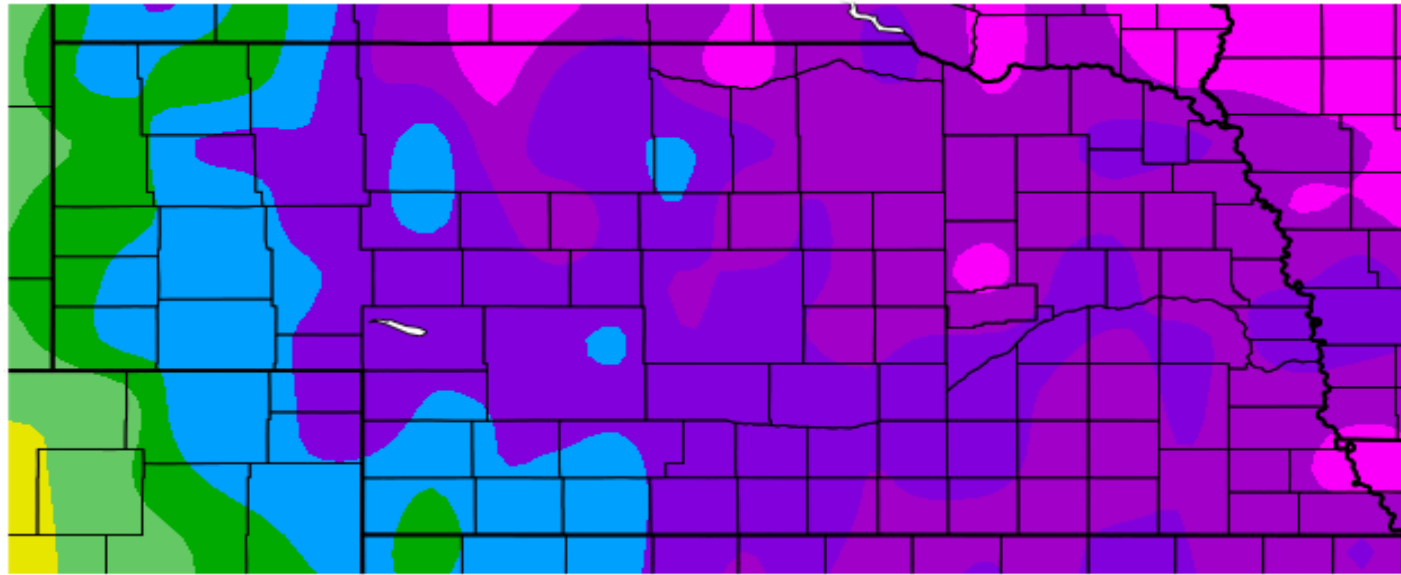
Departure from Normal Precipitation (in)
3/1/2018 – 5/31/2018



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April Temperature Trend

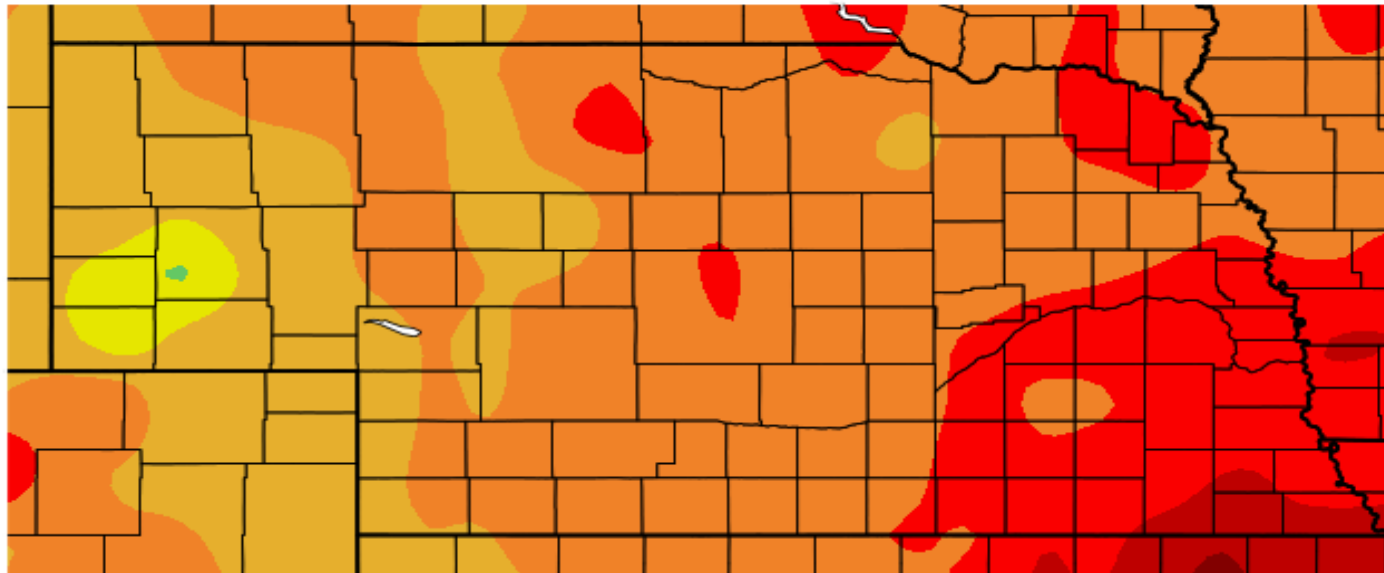
Departure from Normal Temperature (F)
4/1/2018 – 4/30/2018



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May Temperature Trend

Departure from Normal Temperature (F)
5/1/2018 – 5/31/2018

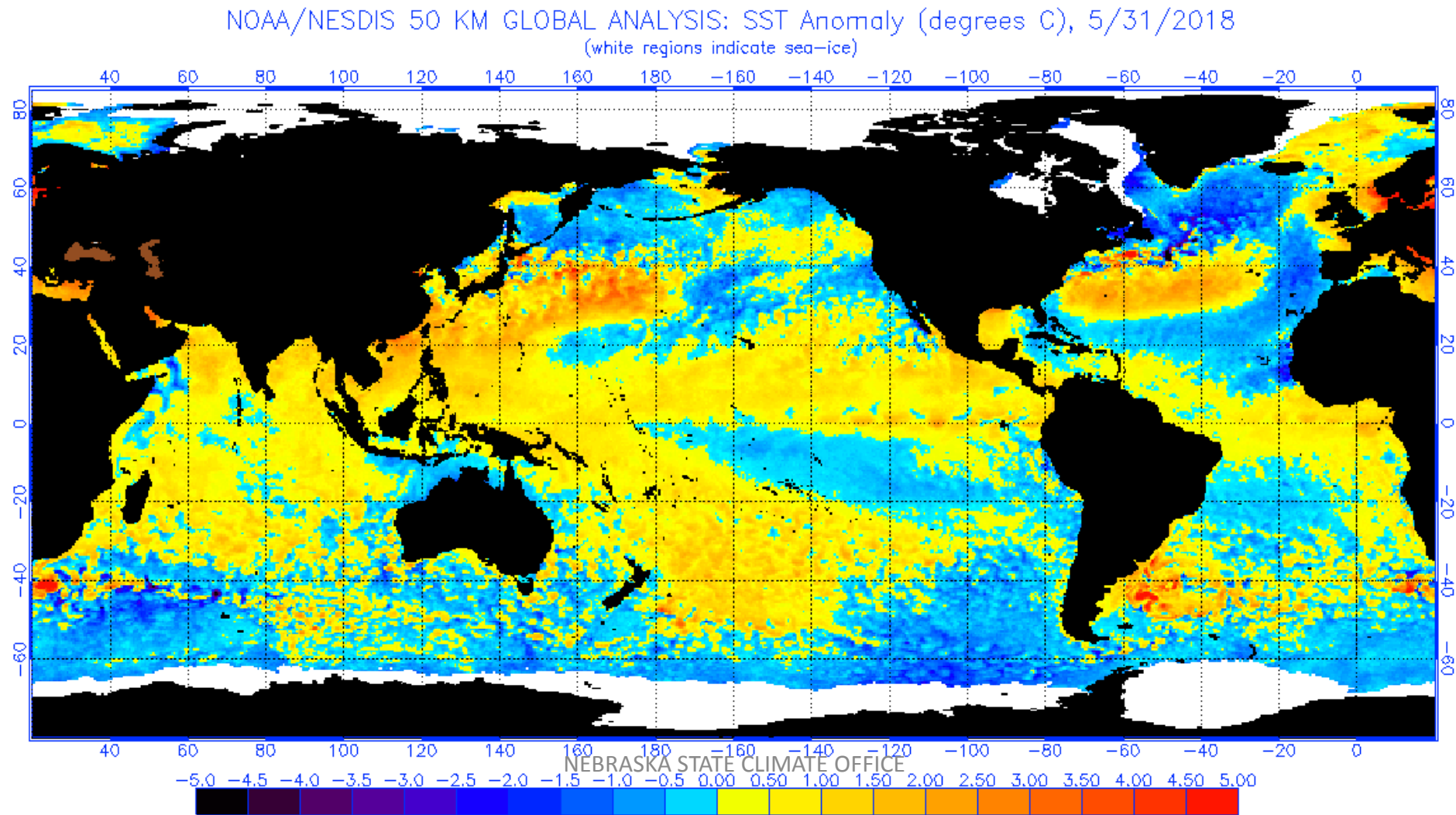


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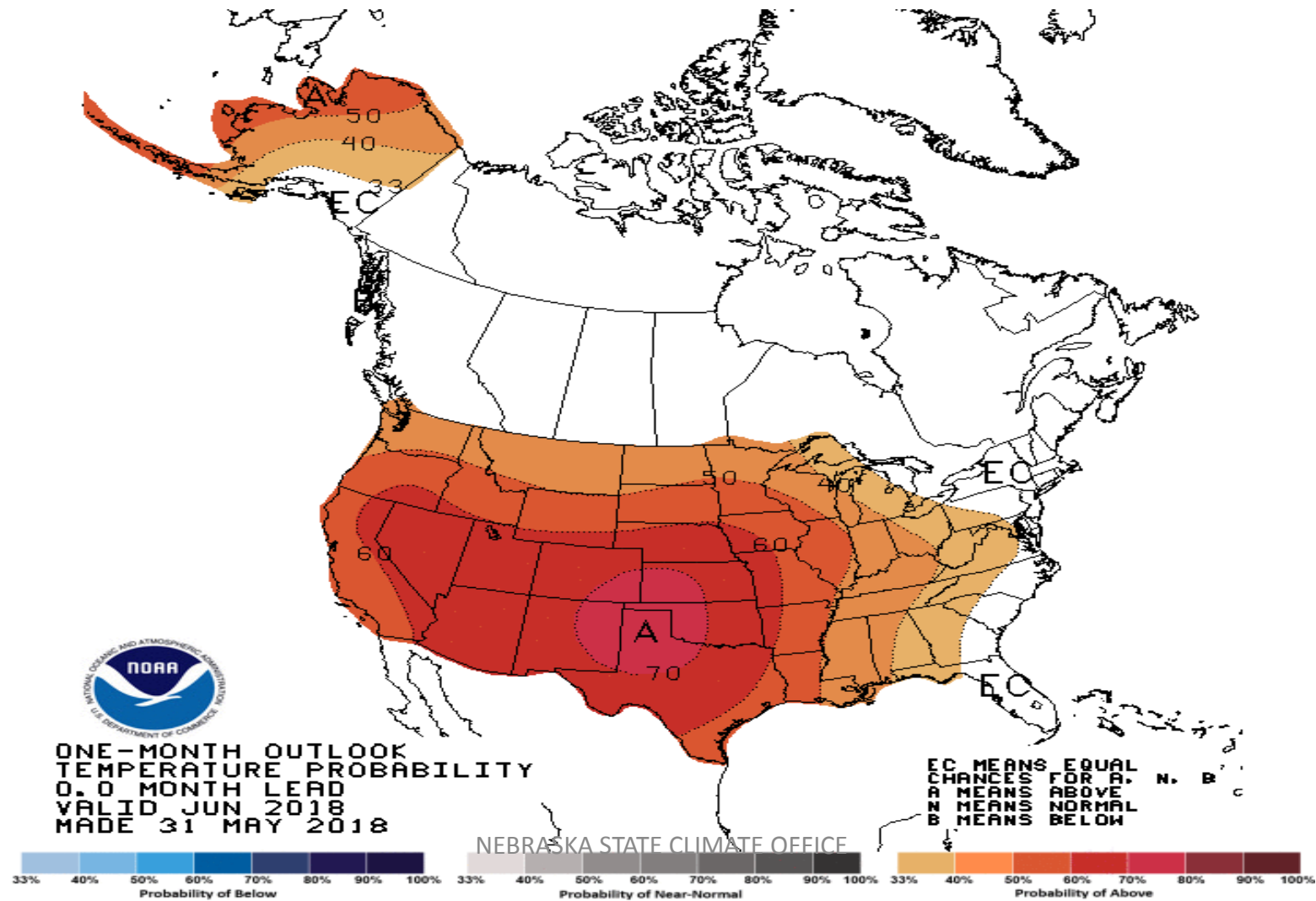
Spring Highlights

- Cool start to March, followed by above normal temperatures late March
- Cold April, unofficially 2nd coldest on record.
- Dry conditions southeast 1/3 of the state, including south central Nebraska.
- Significant Blizzard activity mid-April
- Planting delays due to wet, cold conditions north. Delays south primarily the result of cold temperatures
- Very warm May, likely top 5 warmest on record. Dry conditions southeast, south central, southern half of east central Nebraska
- Pasture growth disappointing south central and southeast. Short and headed out early.
- Full ET expected by mid-June

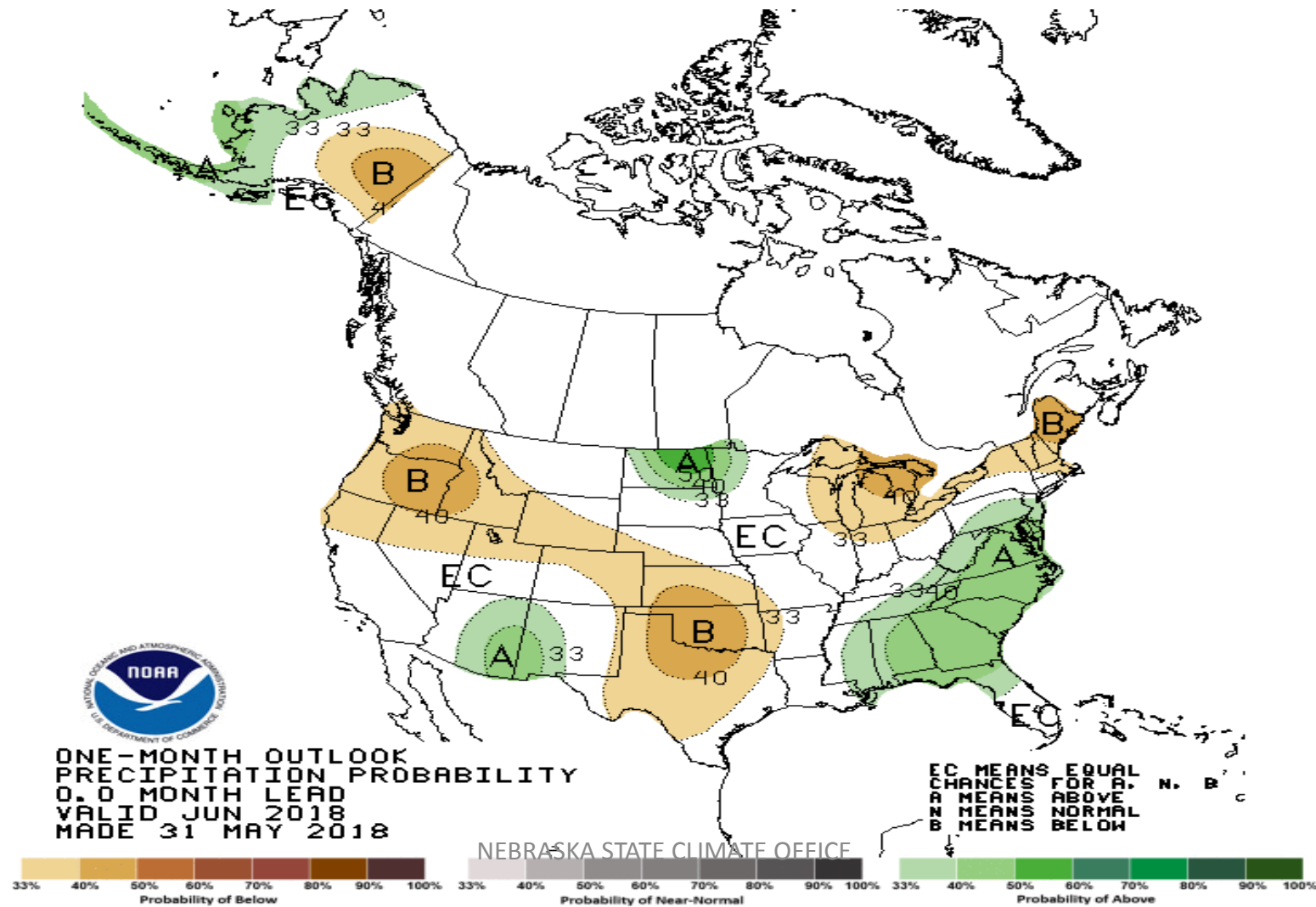
Global Sea Surface Temperature Deviations



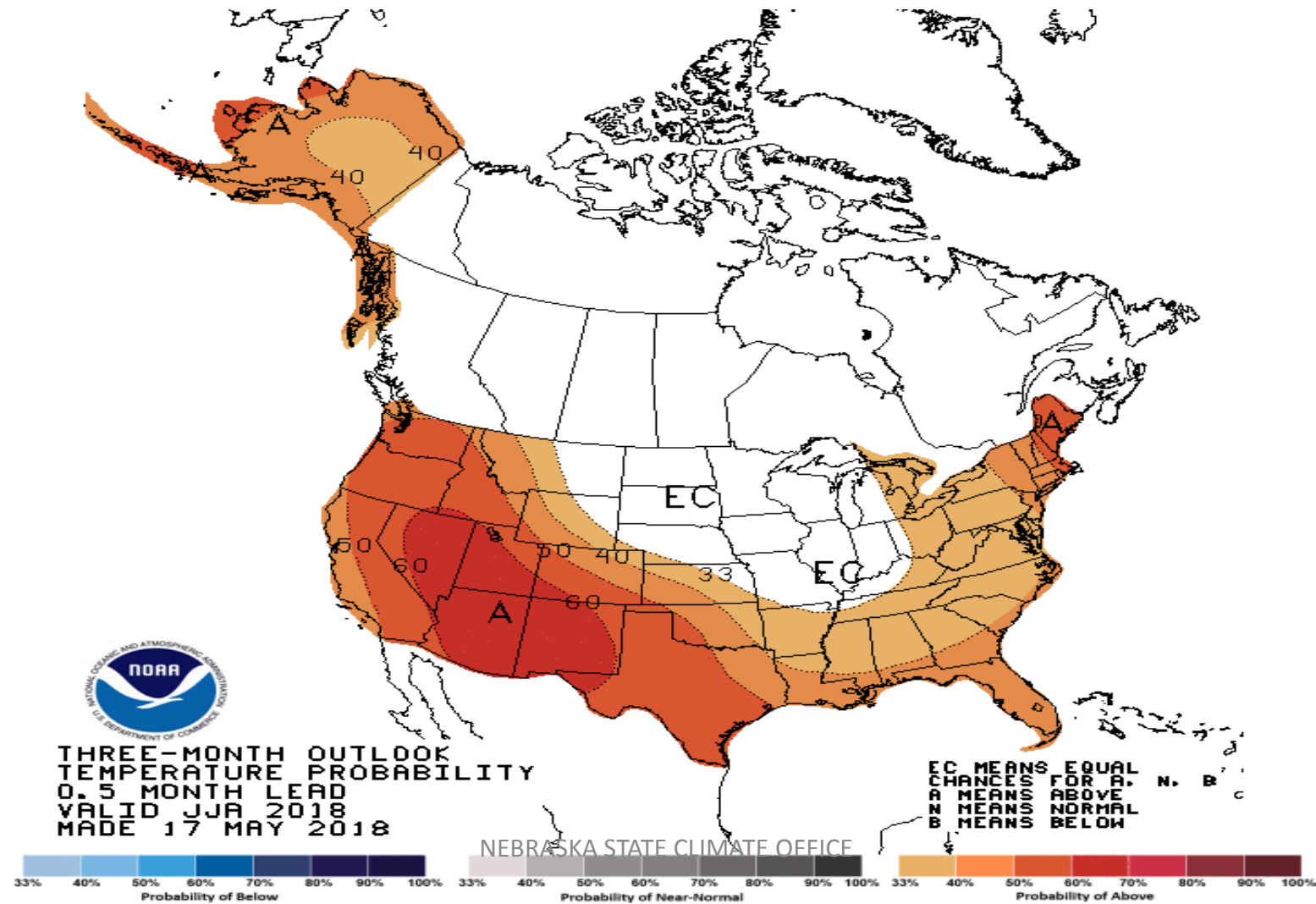
June Temperature Outlook



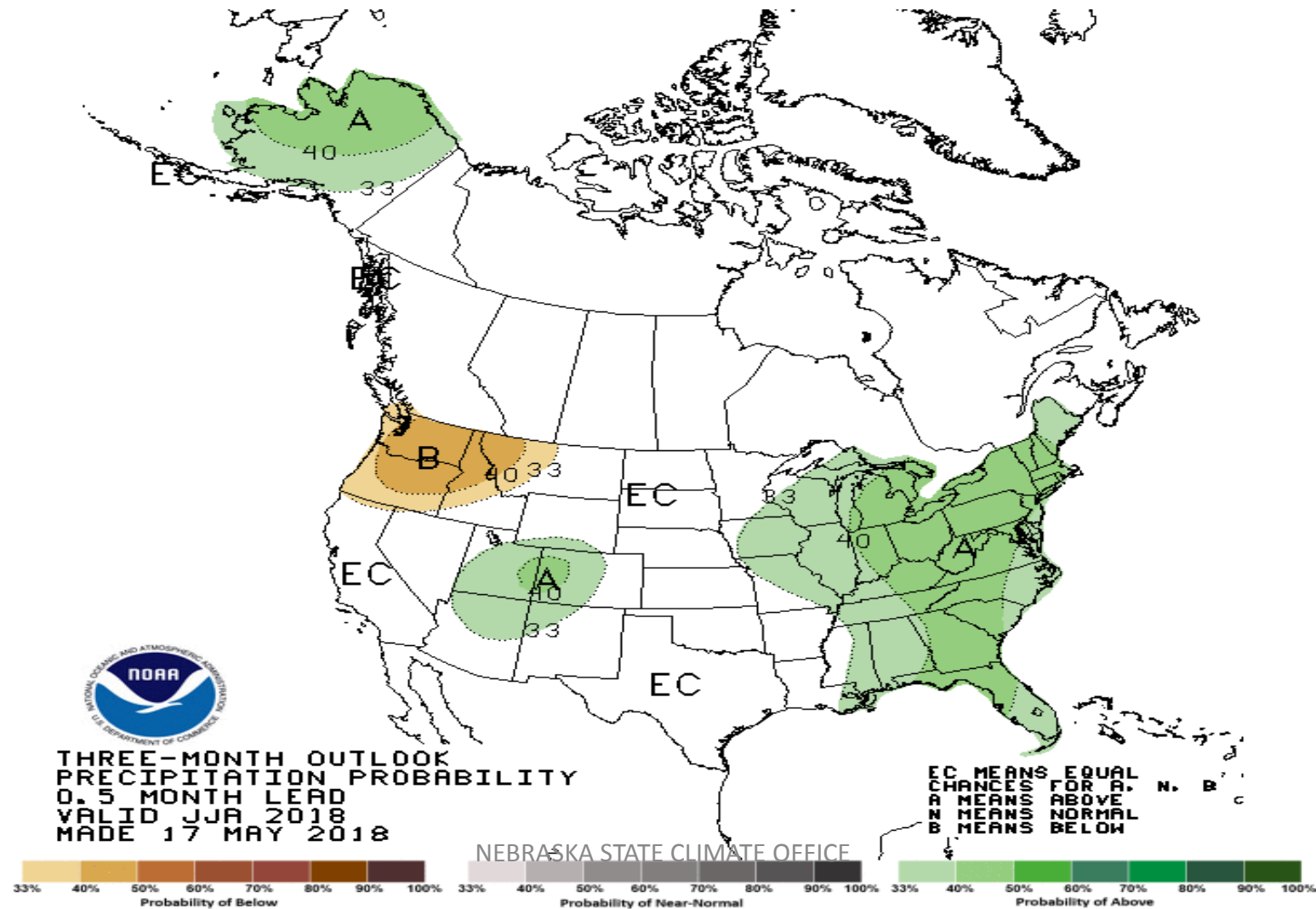
June Precipitation Outlook



Summer Temperature Outlook



Summer Precipitation Outlook



Growing Season Crop Concerns

- Soil Moisture
- Temperatures and precipitation events
- Rocky Mountain Snow pack
- Forage crops
- Monsoon season
- Enhanced risk for El Nino conditions to develop second half of 2018



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