Weather Outlook

April 23, 2015

Aldis Strautins

National Weather Service

Grand Junction, CO

http://www.weather.gov/gjt

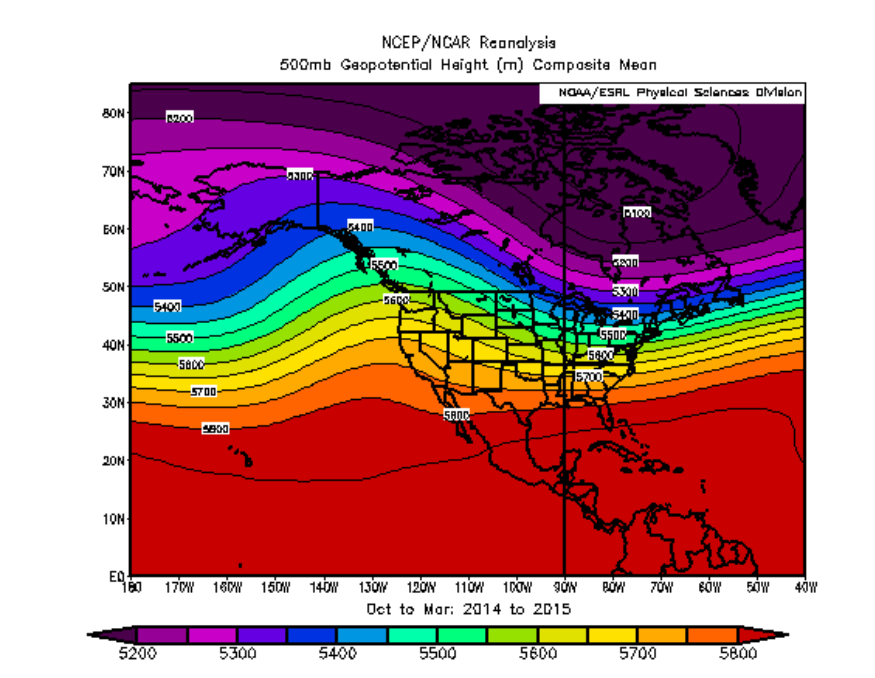
Weather Outlook

April 2015

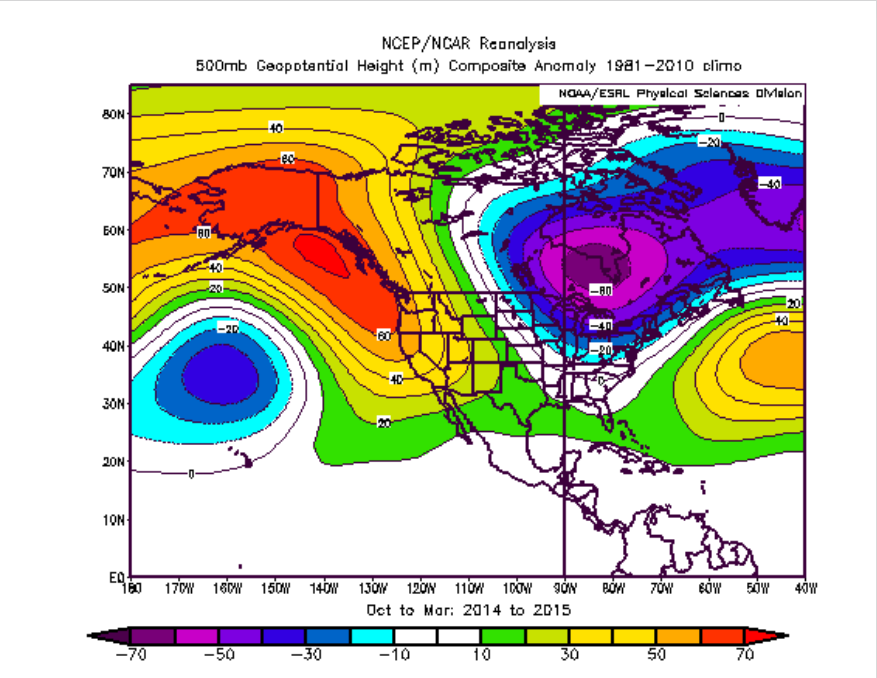
- **The Past**
  - **Ridging pattern**
  - **Temperature/Precipitation**
  - **Drought**
- **El Nino Southern Oscillation (ENSO)**
- **The Future**
  - **Weather Outlook**

The Past
April 2015

500mb composite mean



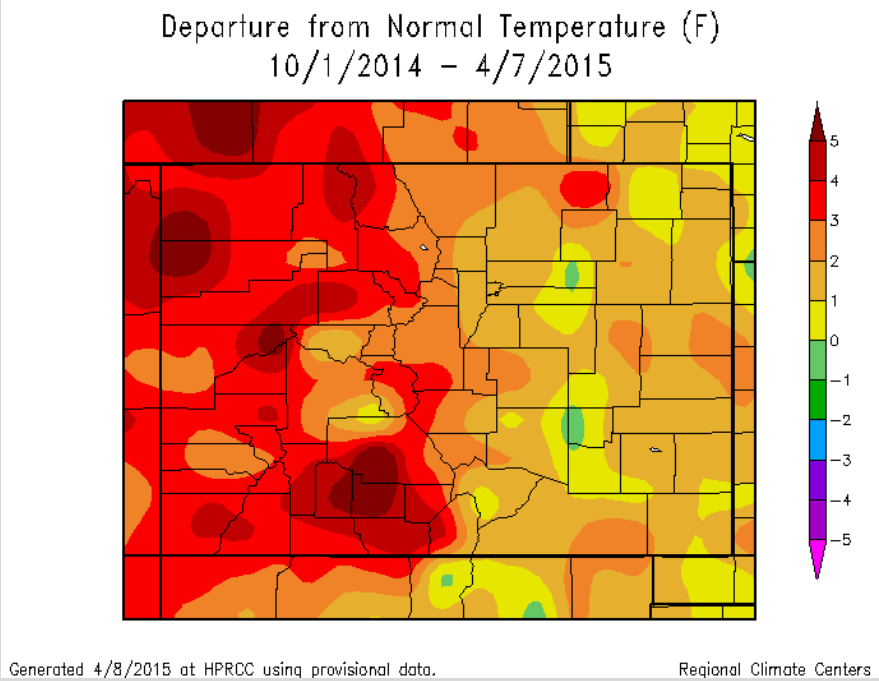
500mb composite Anomaly (1981-2010)



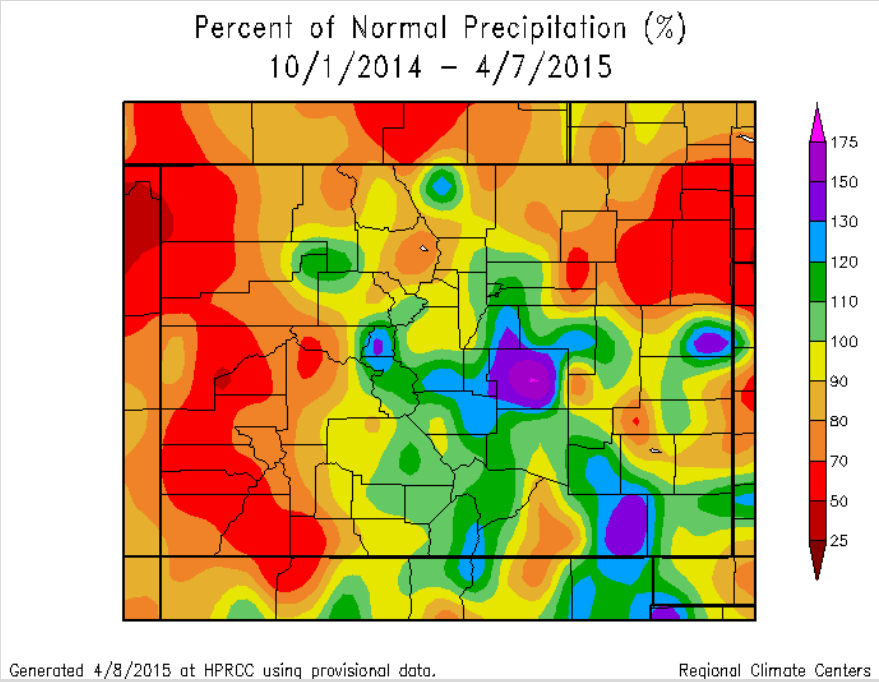
Water Year 2015 (Oct-Mar)

The Past
April 2015

Temperature



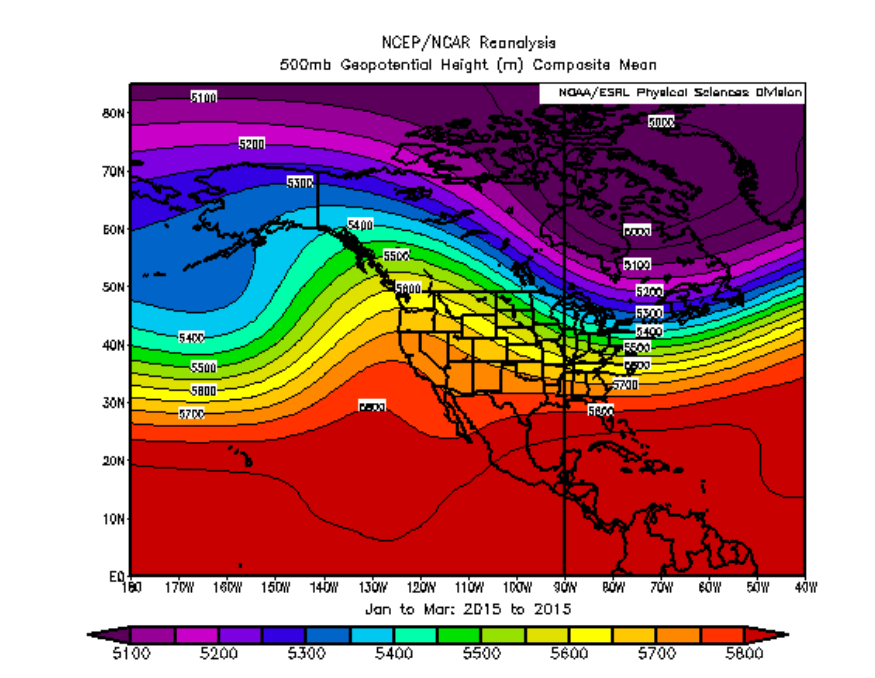
Precipitation



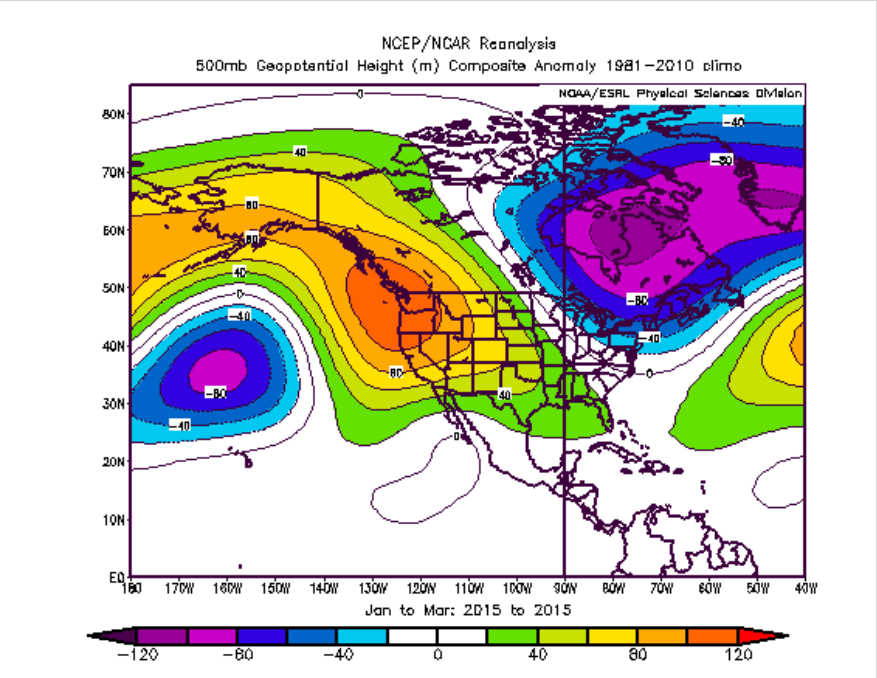
Water Year 2015 thru April 7, 2015

The Past
April 2015

500mb composite mean



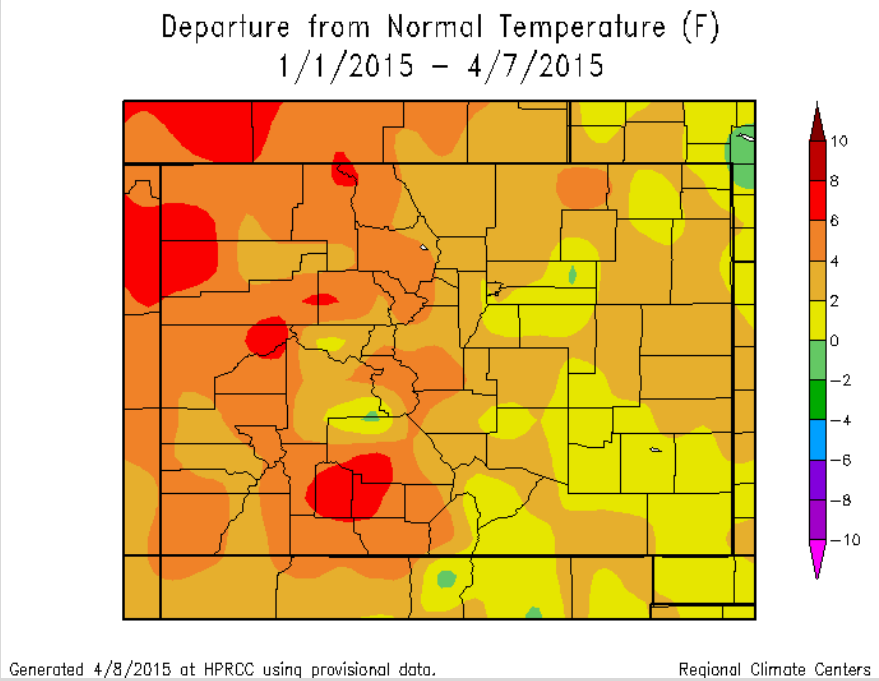
500mb composite Anomaly (1981-2010)



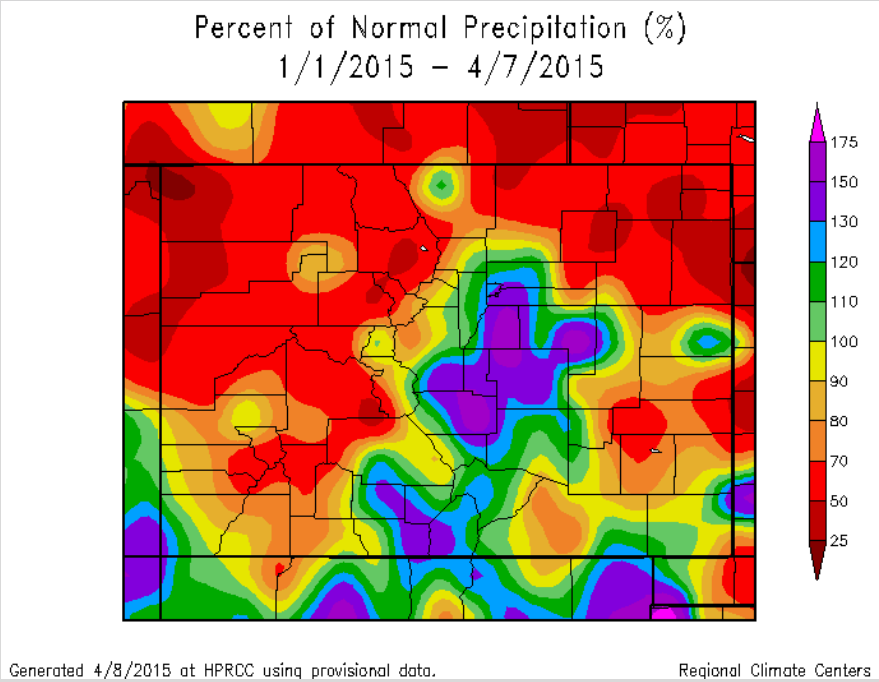
January thru March, 2015

The Past
April 2015

Temperature



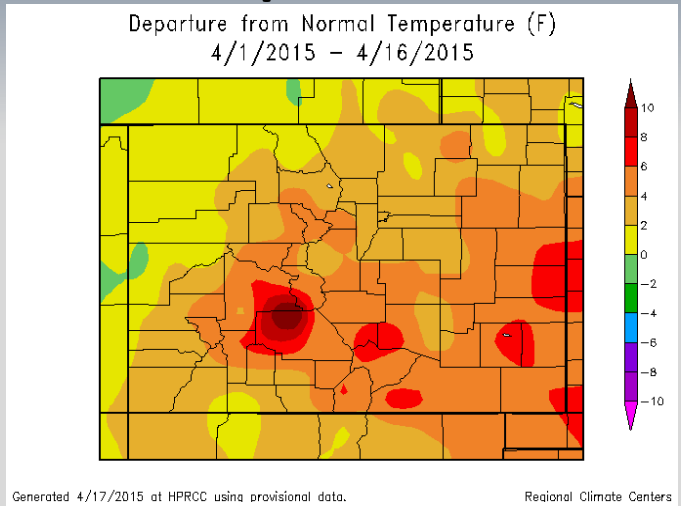
Precipitation

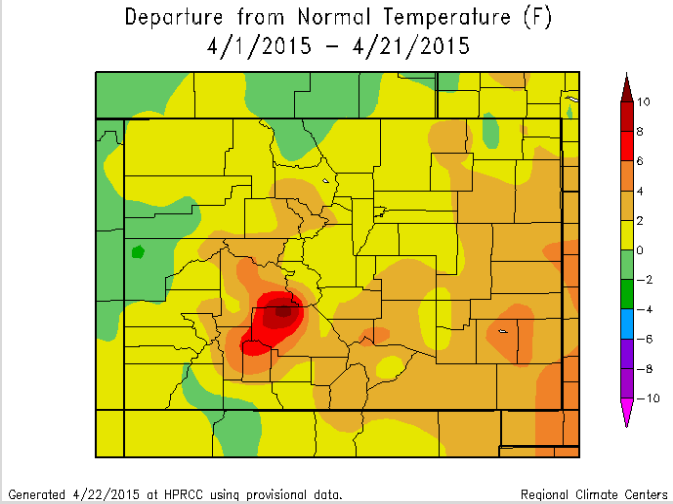


From January 1, 2015 thru April 7, 2015

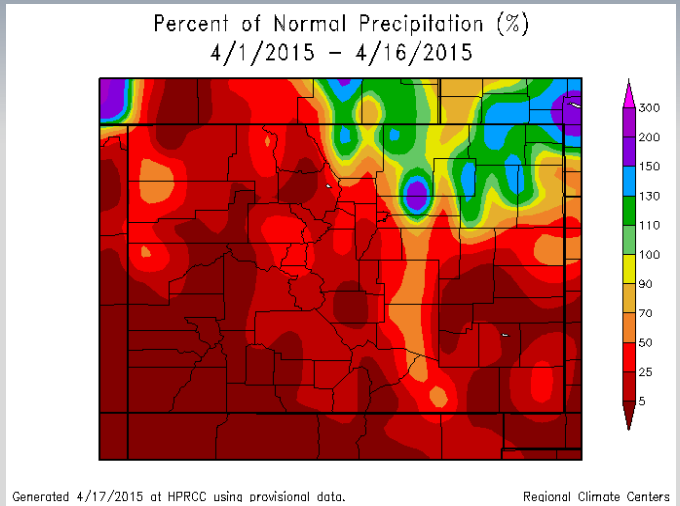
The Past
April 2015

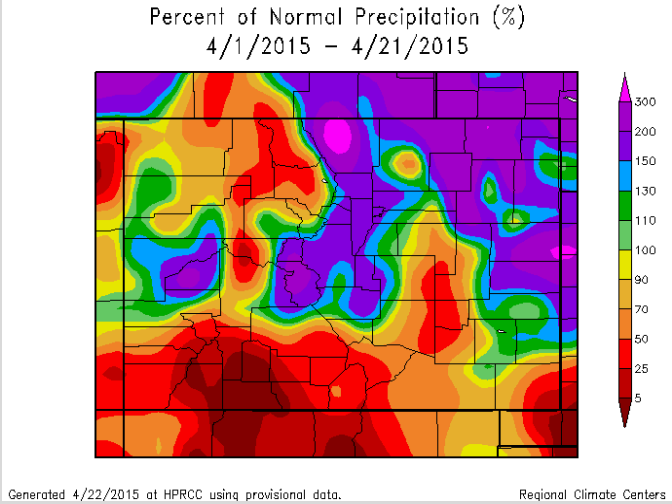
Temperature





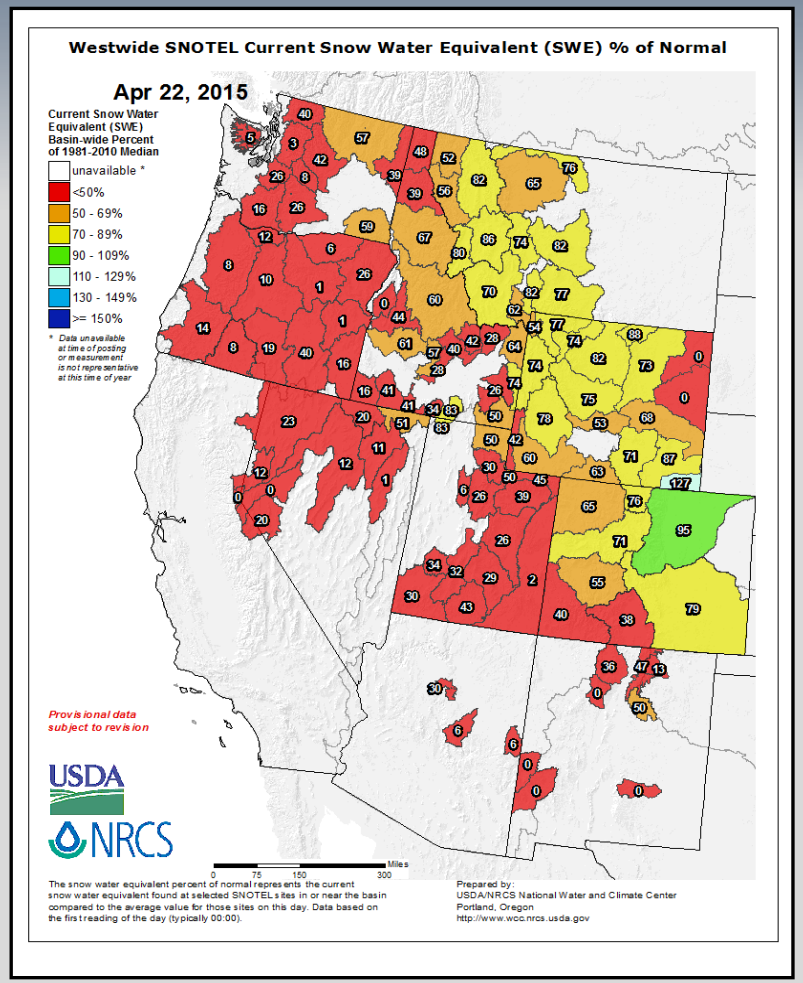
Precipitation





April 2015

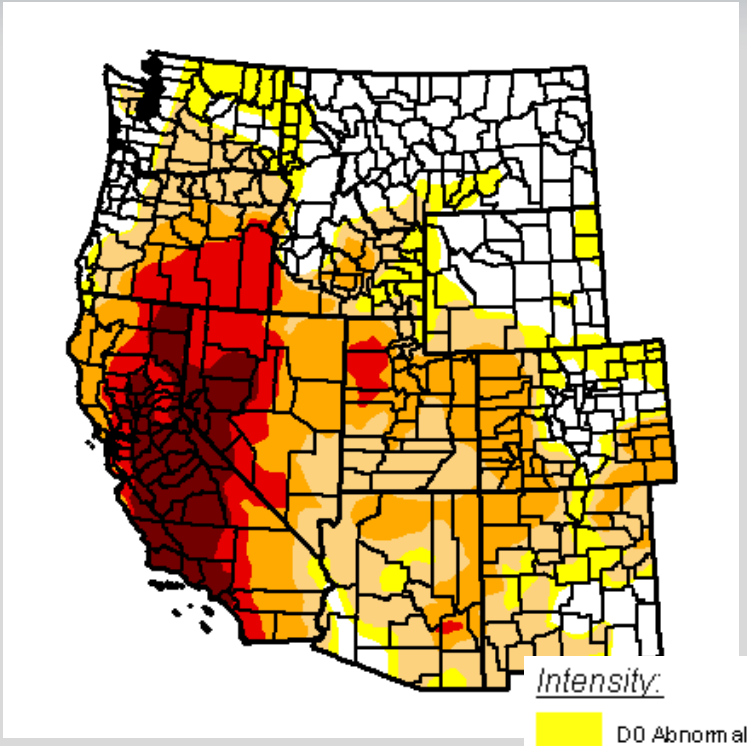
The Past
April 2015



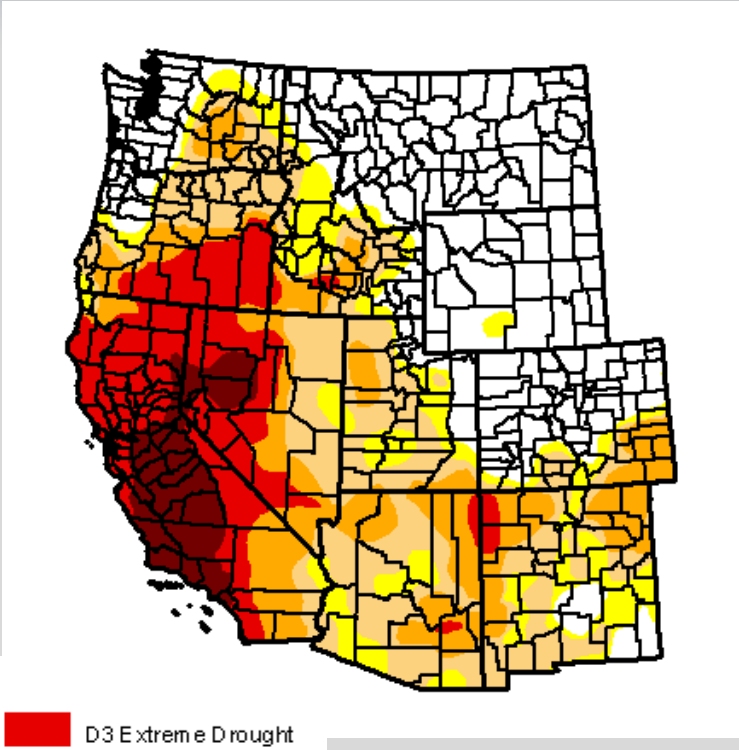
West wide SNOTEL Snow Water Equivalent – NRCS
April 22, 2015

Drought
April 2015

April 14, 2015



January 6, 2015



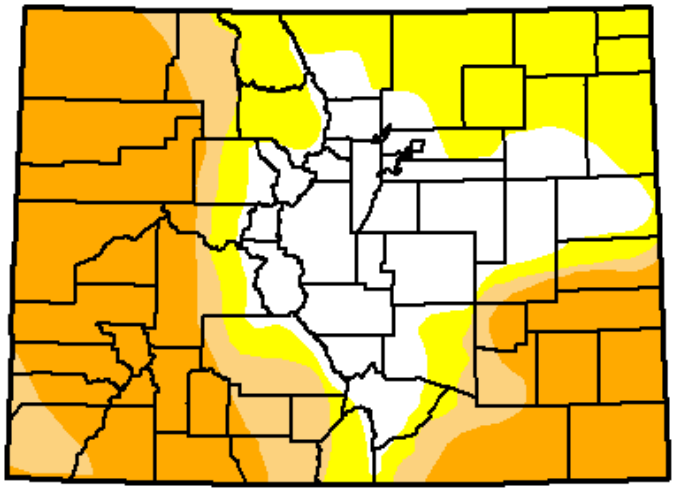
Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

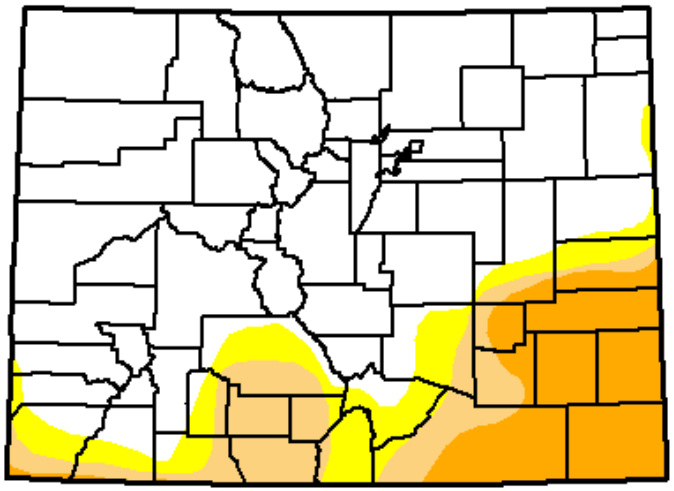
Drought – Monitor

Drought
April 2015

April 14, 2015



January 6, 2015



Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

Drought – Monitor

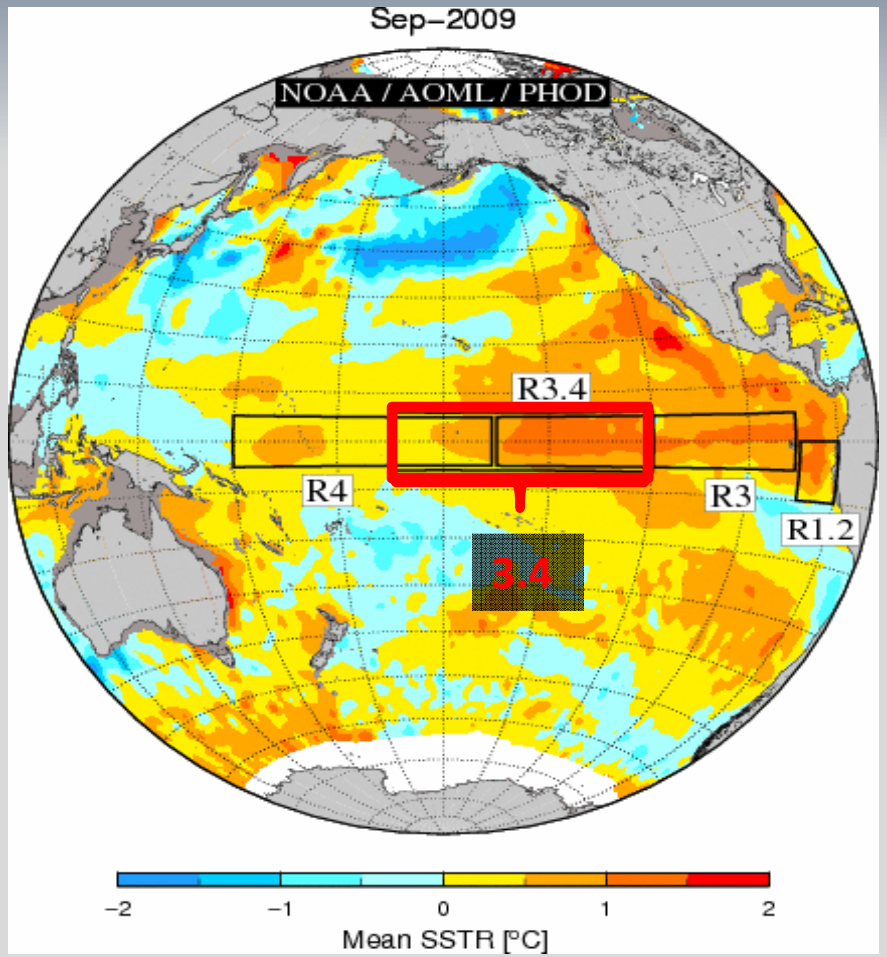
ENSO
April 2015

Simple Definition: variance from normal sea surface temperatures in the eastern equatorial Pacific Ocean.

El Niño: a warm change (+ENSO)
La Niña: a cold change (-ENSO)

ENSO changes the jet streams (winds aloft) which changes the storm track with resulting predictable effects

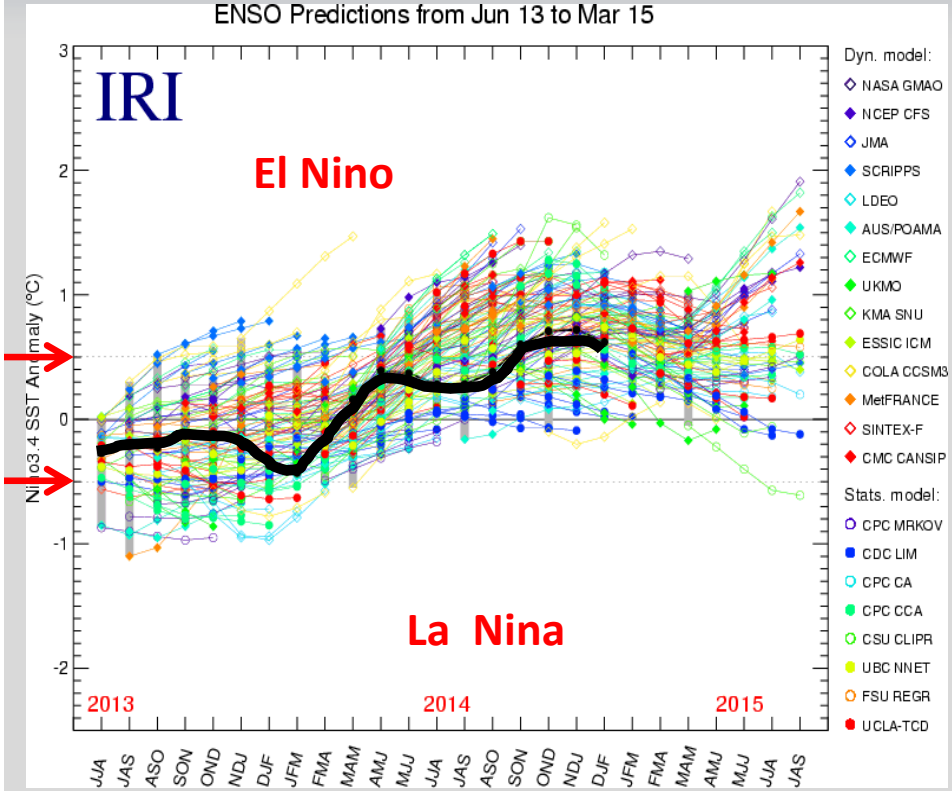
*ENSO effects are felt mainly in the cold season
*ENSO: primary winter outlook tool



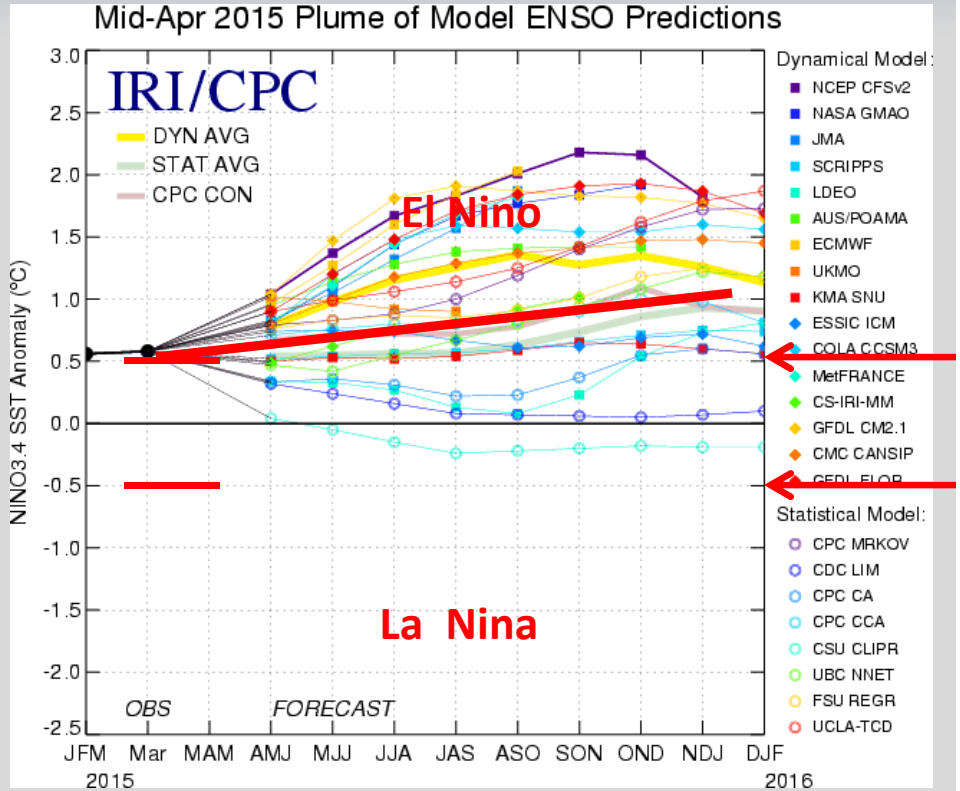
El Nino Southern Oscillation (ENSO)

ENSO
April 2015

Jul 2013 to Mar 2015



2015

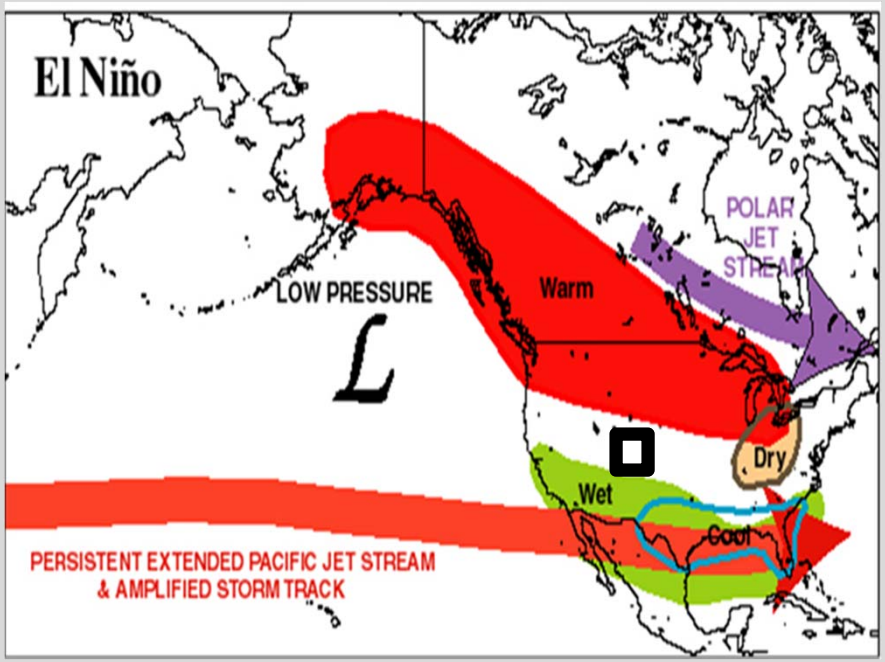


ENSO – Outlook

ENSO- Weak El Nino conditions continue

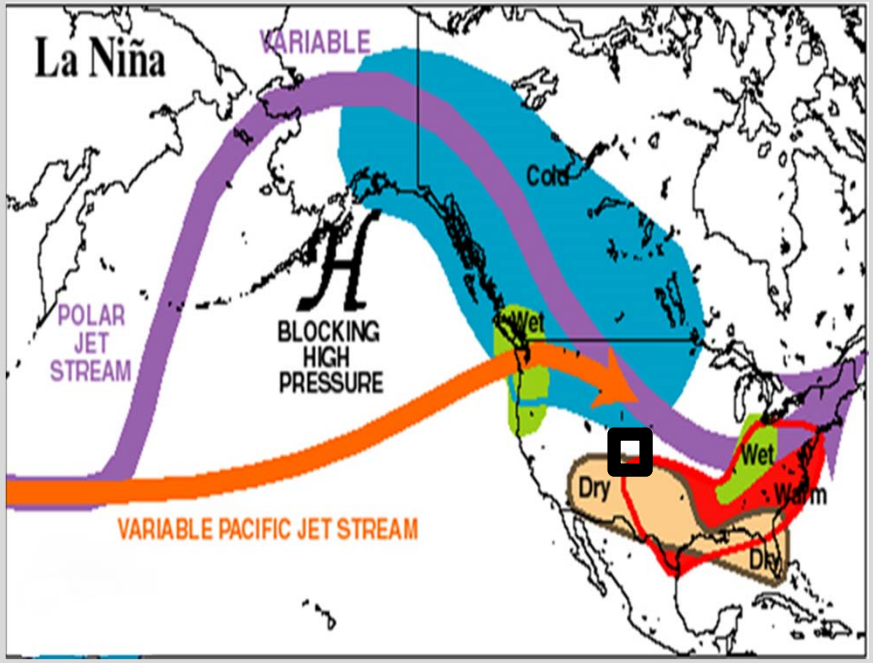
ENSO
April 2015

El Nino



North of Colorado - Dry and Warm
South of Colorado - Wet and Cool

La Nina

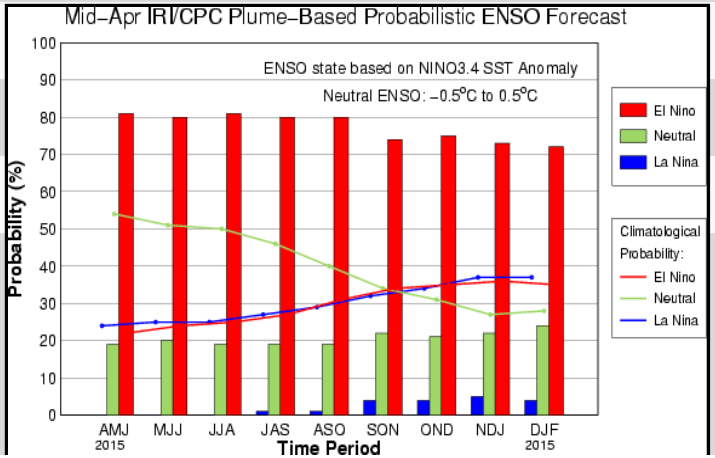


North of Colorado - Wet and Cool
South of Colorado - Dry and Warm

ENSO
April 2015

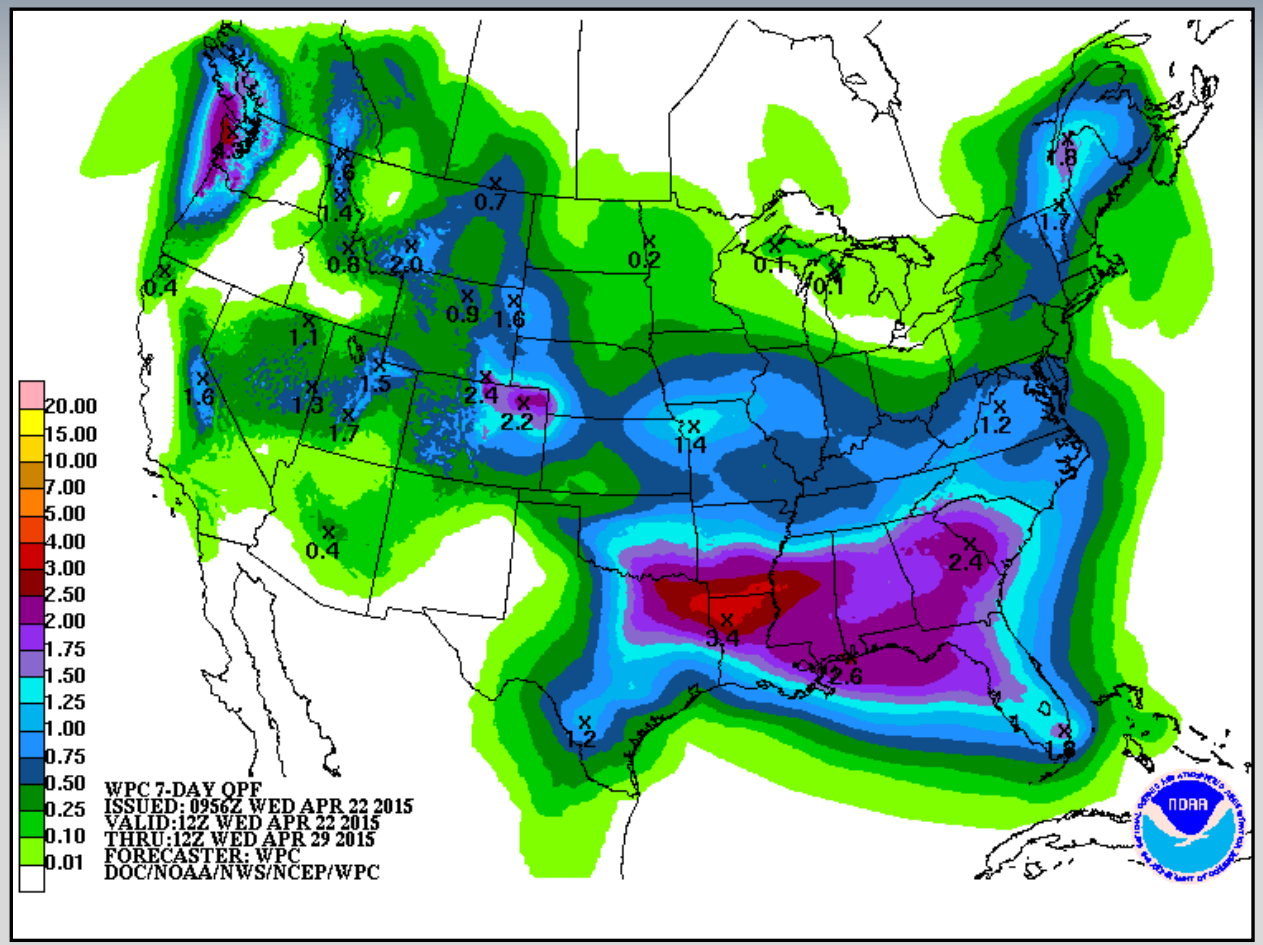
CPC/IRI Early-Month Consensus ENSO Forecast Probabilities
(using NWS CPC classification system)

Season	La Niña	Neutral	El Niño
AMJ 2015	~0%	19%	81%
MJJ 2015	~0%	20%	80%
JJA 2015	~0%	19%	81%
JAS 2015	1%	19%	80%
ASO 2015	1%	19%	80%
SON 2015	4%	22%	74%
OND 2015			75%
NDJ 2015			73%
DJF 2015			72%



Weather Outlook

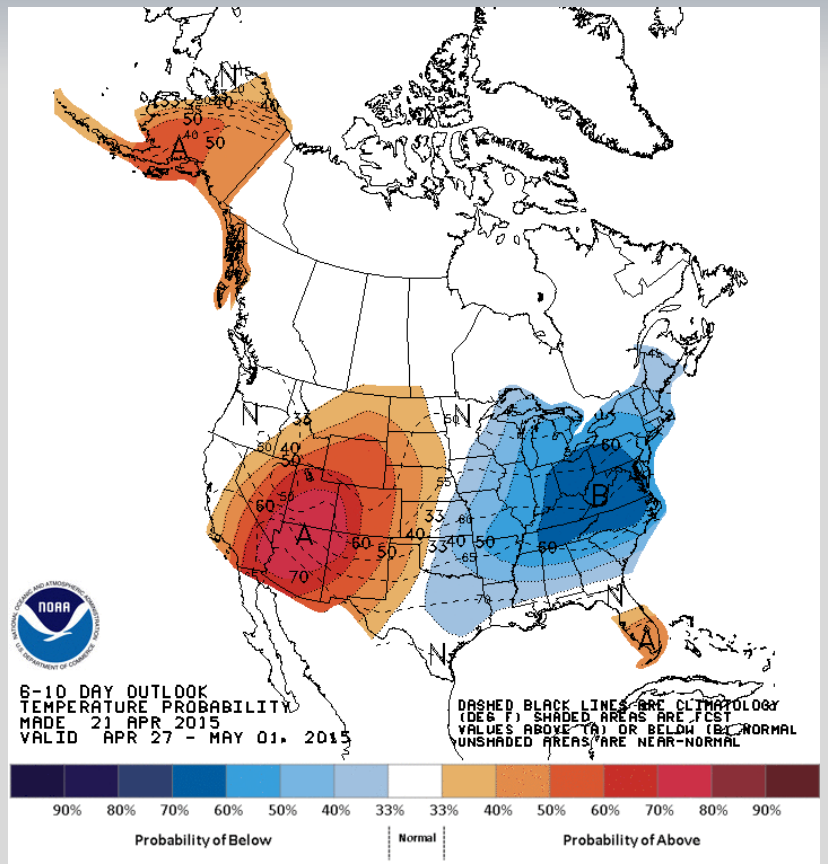
April 2015



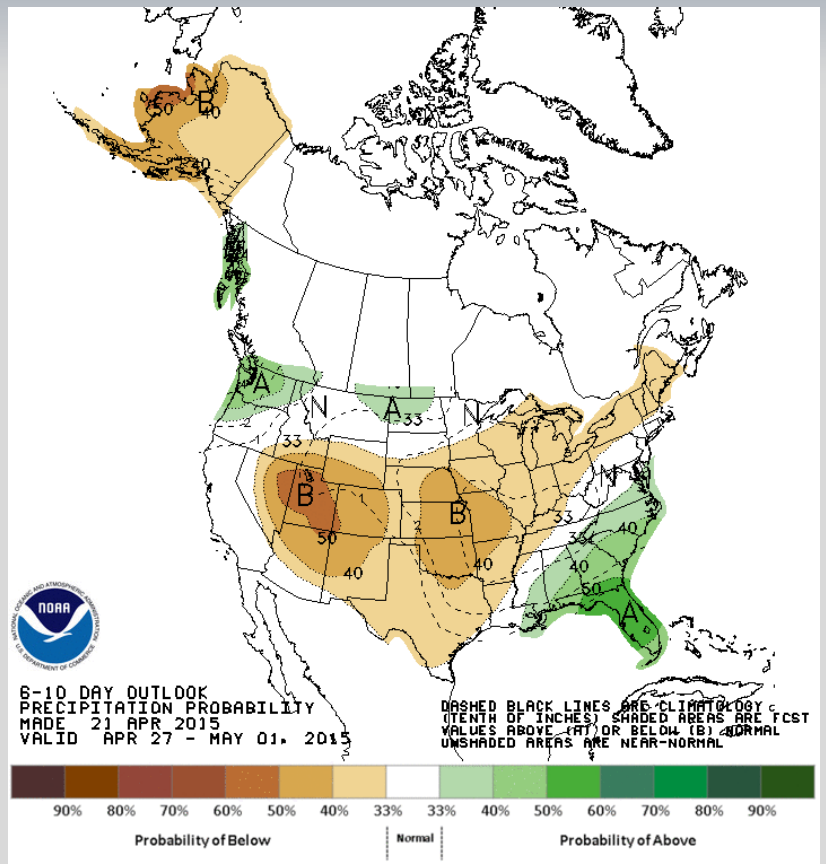
WPC 7-Day Precipitation

Weather Outlook
April 2015

Temperature



Precipitation

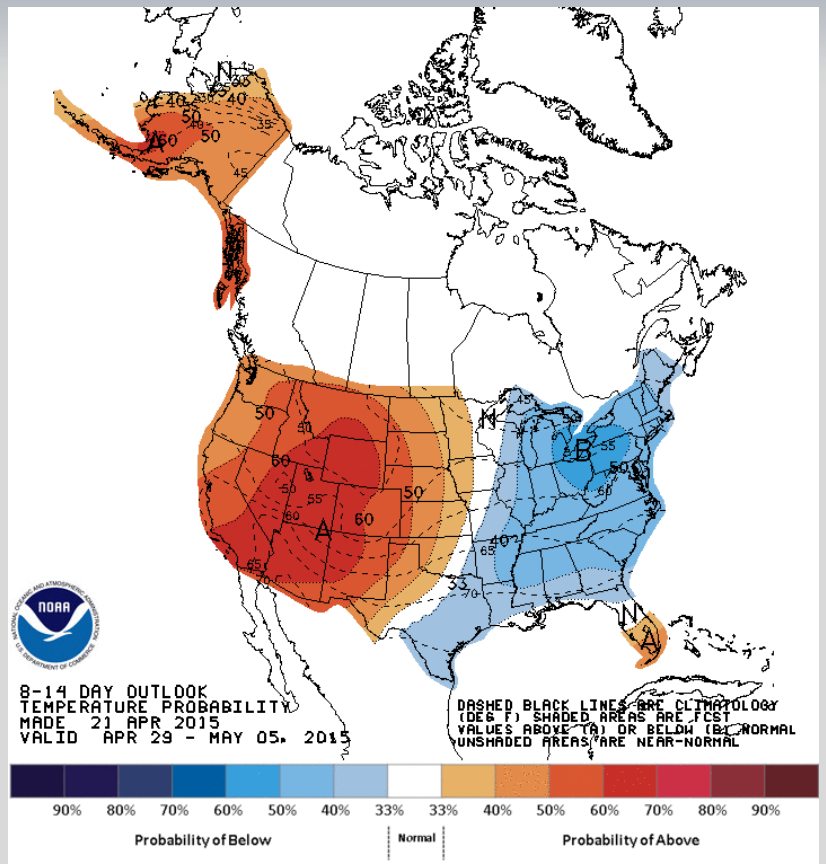


6-10 Day Outlook

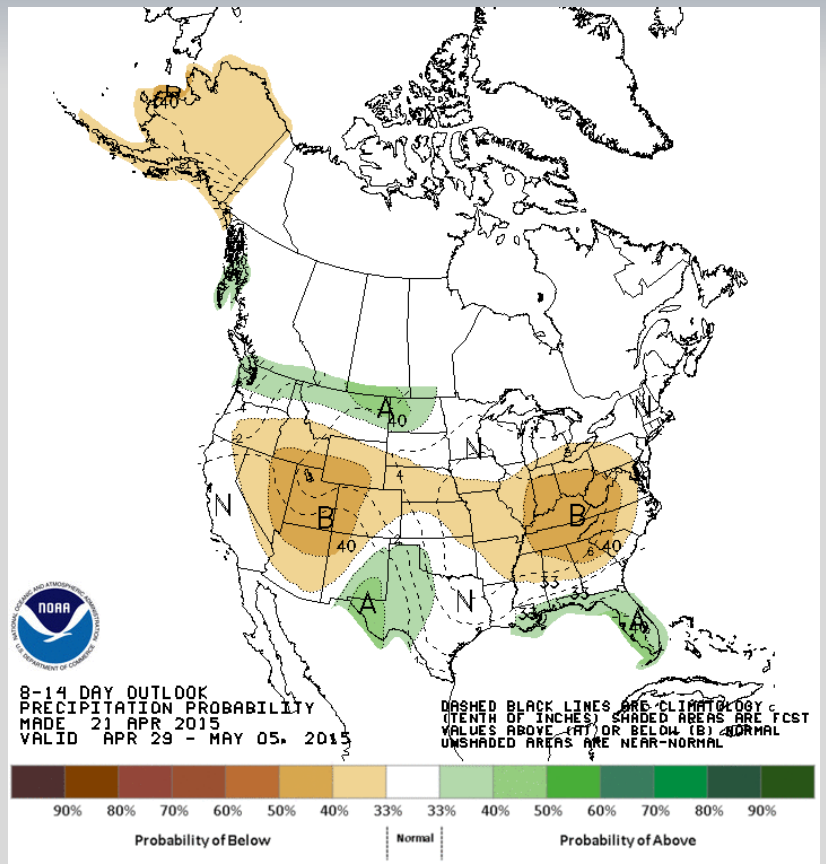
Weather Outlook

April 2015

Temperature



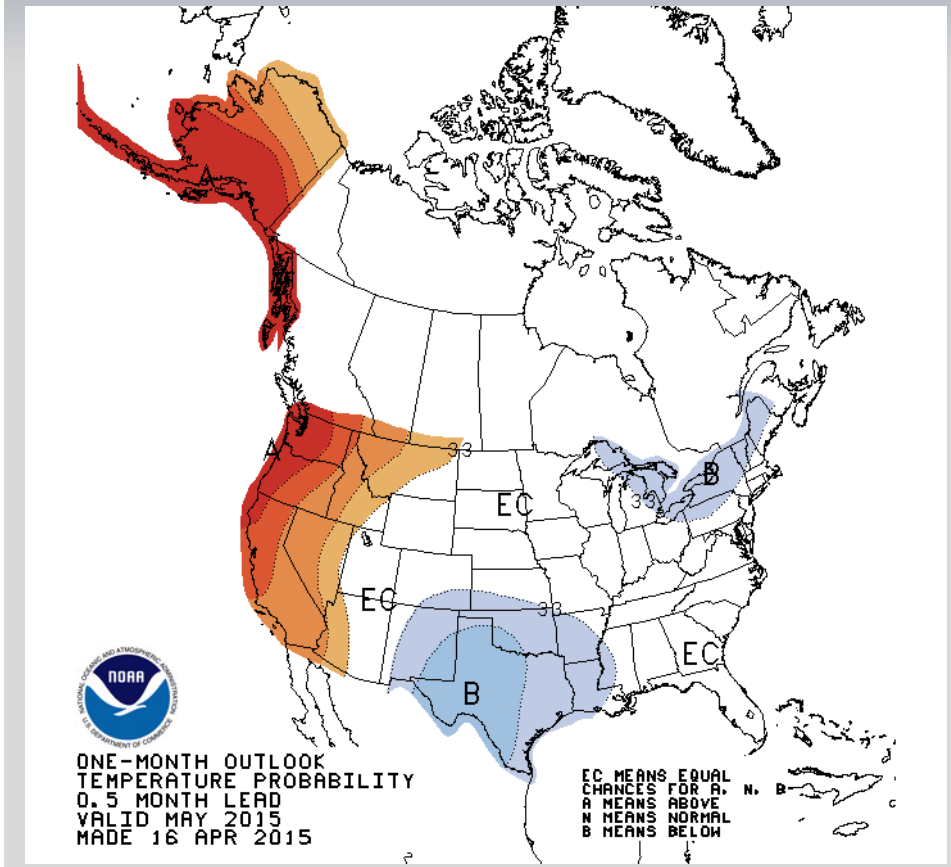
Precipitation



8-14 Day Outlook

Weather Outlook
April 2015

Temperature



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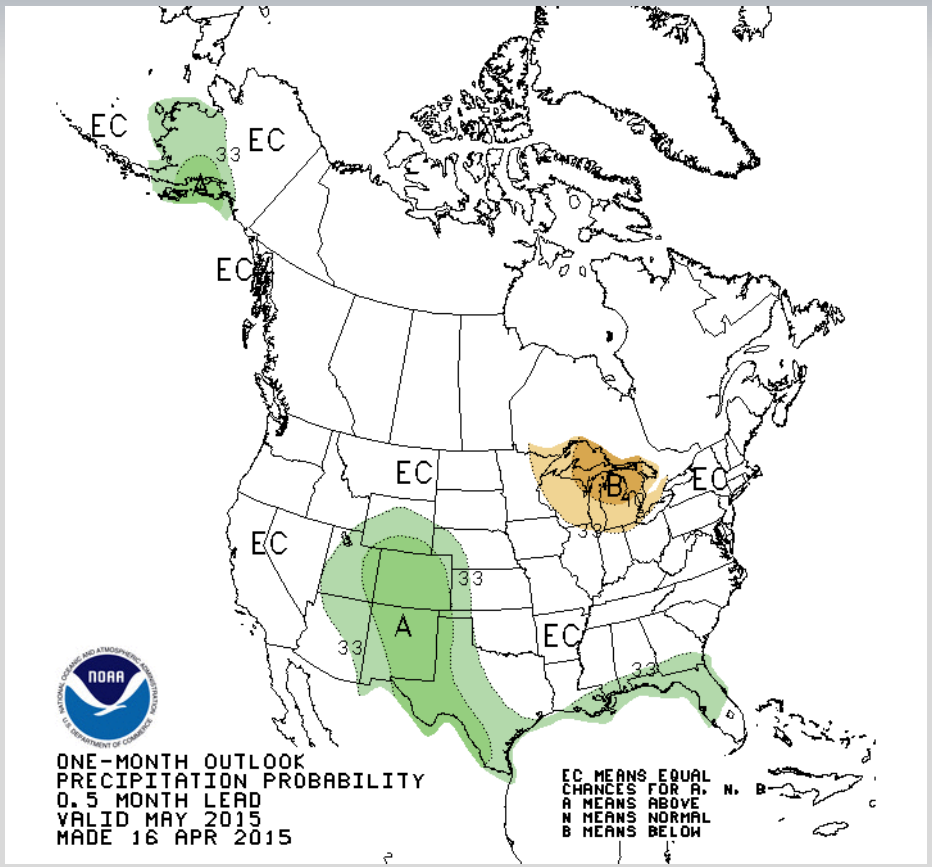
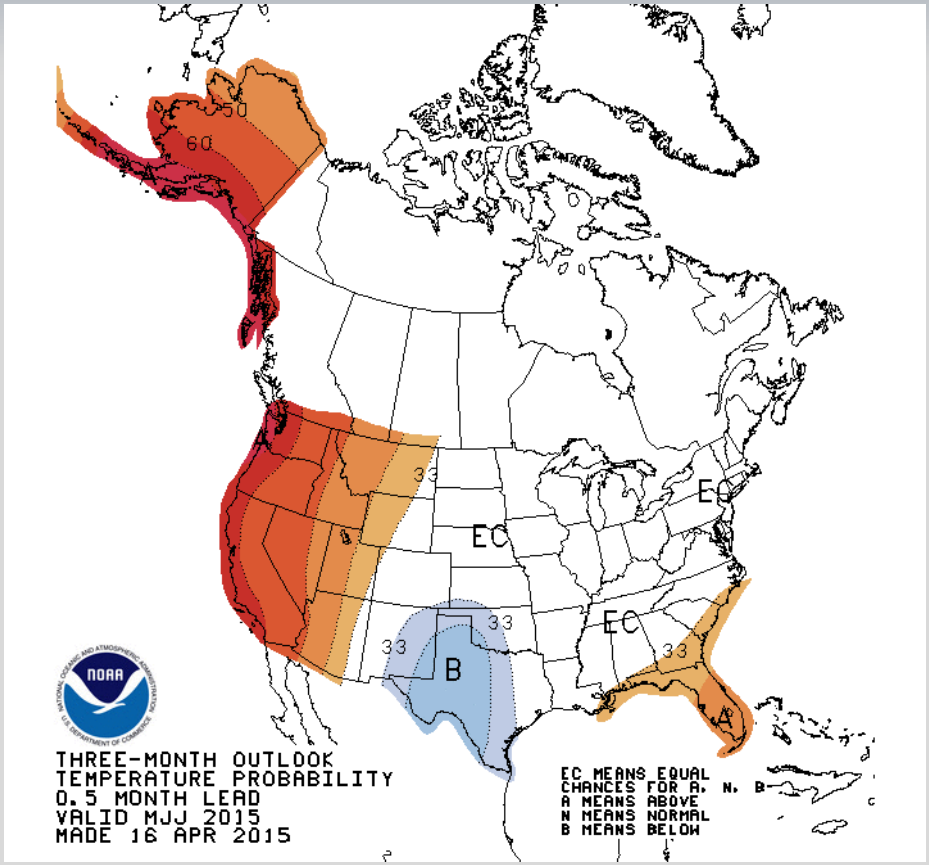


May – (Monthly Outlook)

Weather Outlook
April 2015

Temperature



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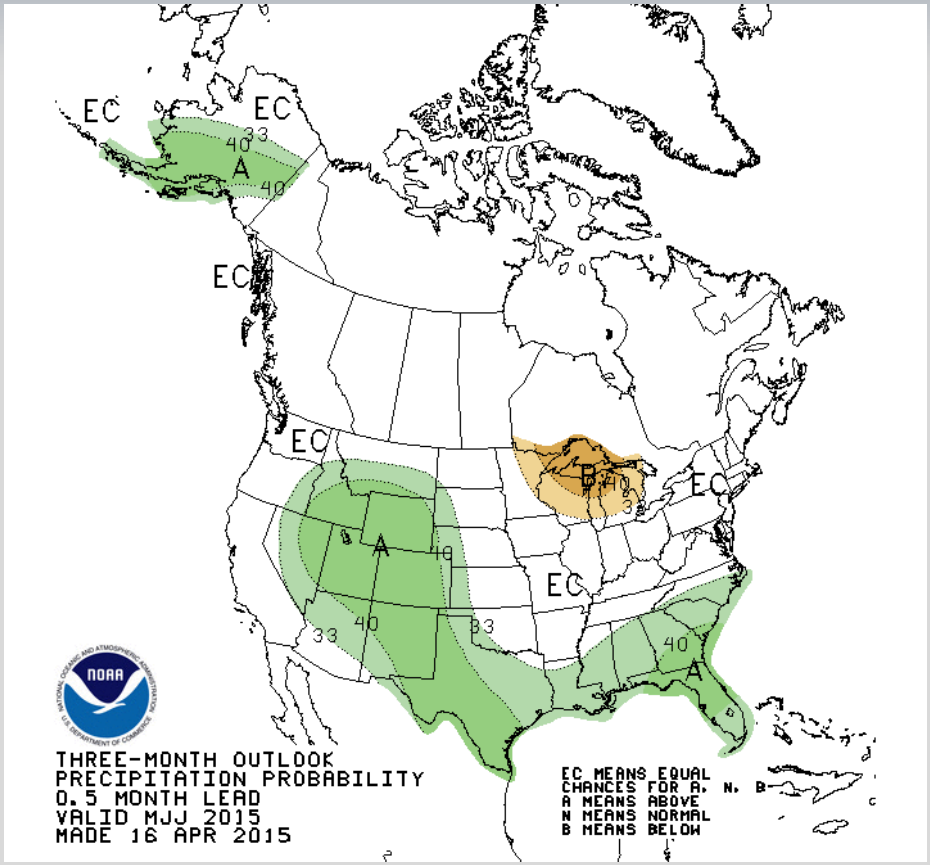
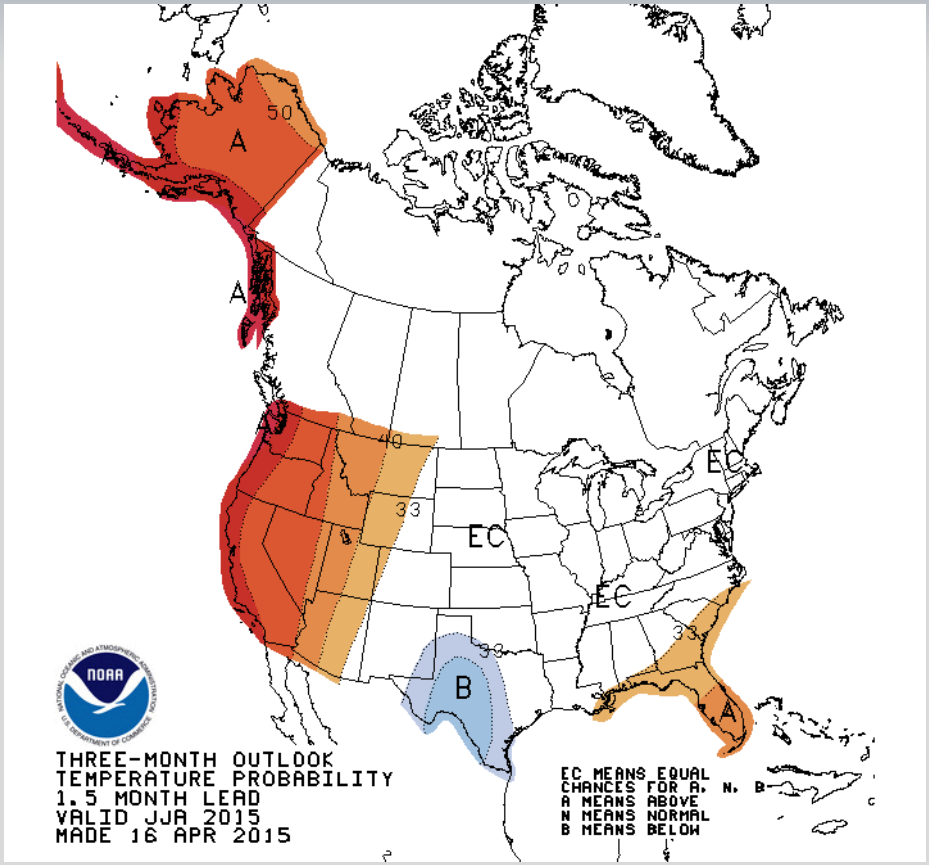


May/Jun/Jul – Outlook

Weather Outlook
April 2015

Temperature



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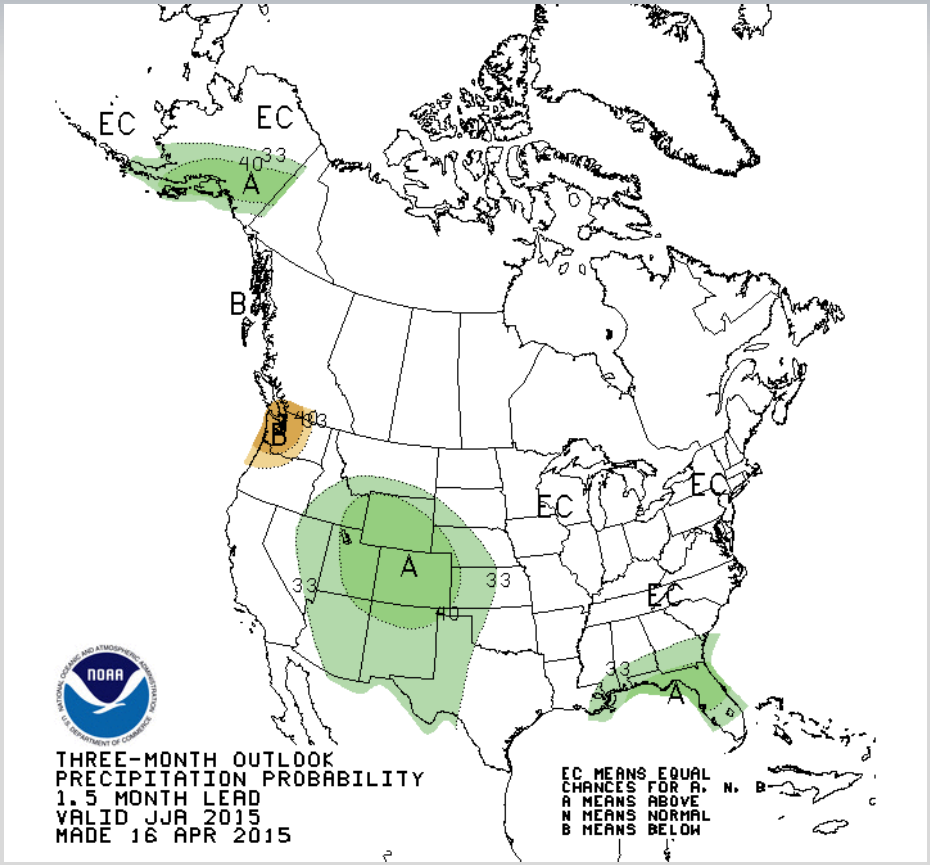
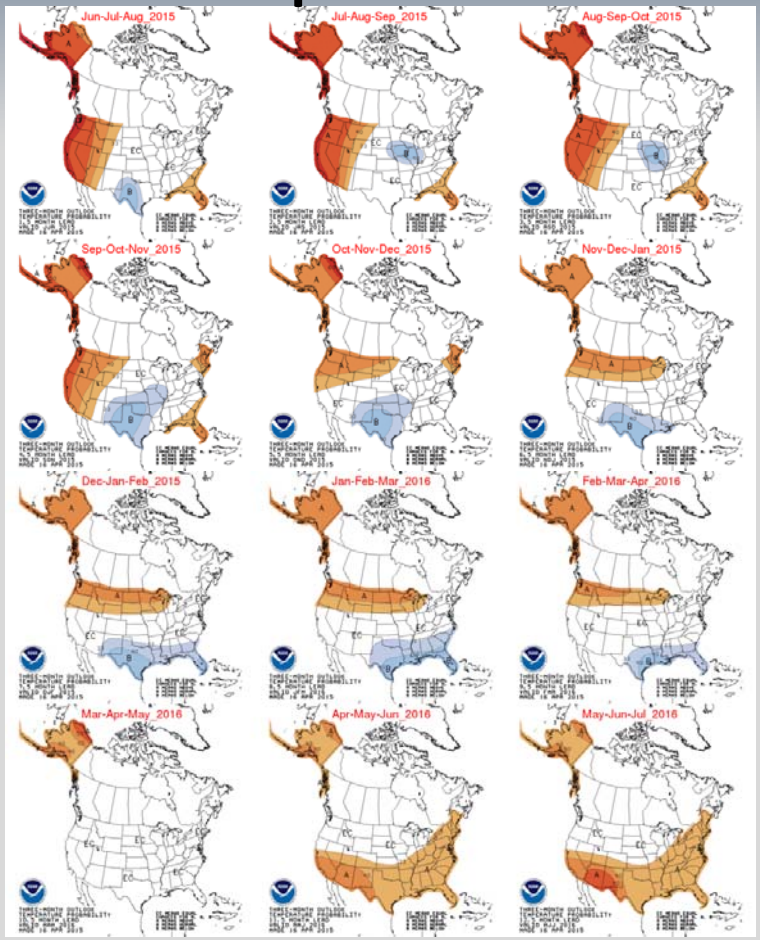


Jun/Jul/Aug – Outlook

Weather Outlook

April 2015

Temperature



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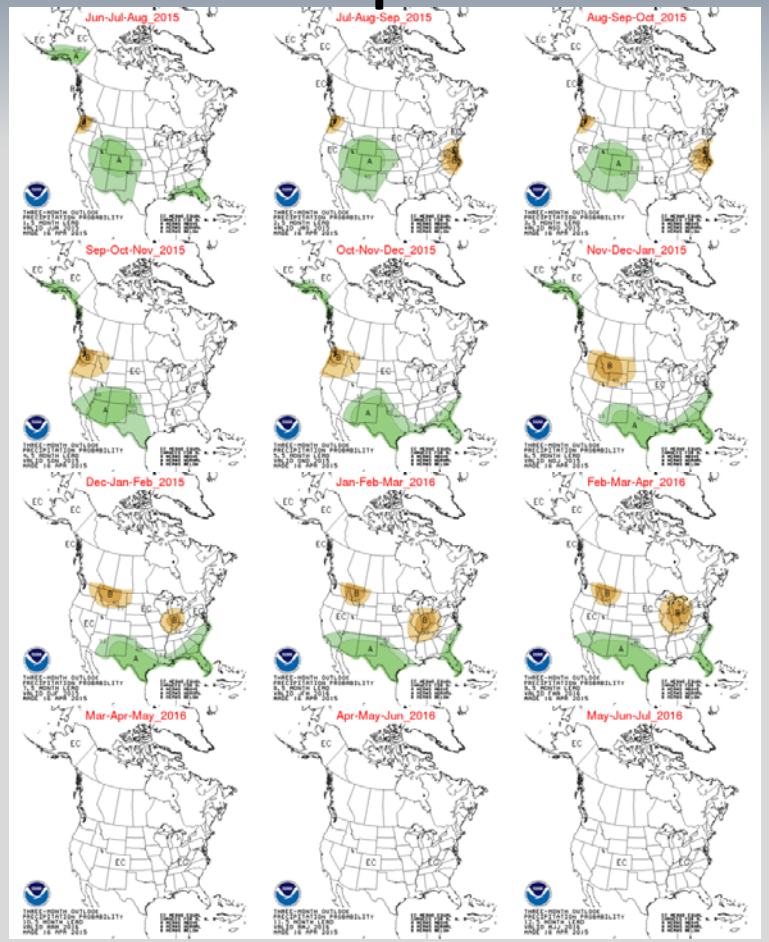
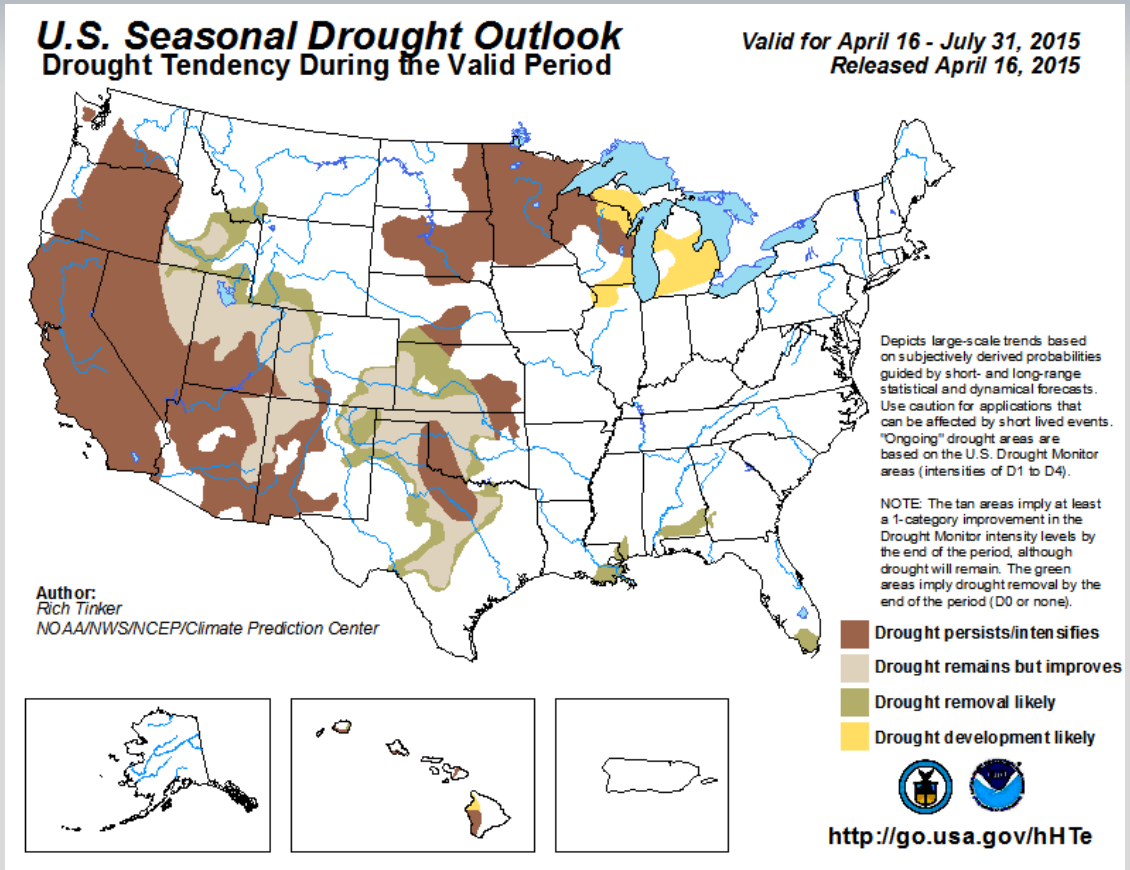


ALL – Outlooks

Weather Outlook
April 2015

Seasonal



Drought– Outlook

Weather Outlook

April 2015

Aldis Strautins

NWS Grand Junction, CO

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