

NOVEMBER 2014

Weather Digest

The background is a pixelated illustration of a farm scene. In the foreground, there are several large, orange pumpkins with green stems. Behind them, a wooden fence runs across the field. In the background, there is a large barn with a chimney and a bright sun in a yellow and orange sky, suggesting a sunset or sunrise. The overall color palette is warm, dominated by oranges, yellows, and reds.

Weather Summary

Significant Events

Special Features

**Temperature &
Precipitation**

Severe Weather

November 2014 Weather Summary

November typically begins transitioning into a drier, quieter time of the year. Precipitation becomes scarcer, although many of the higher elevations receive their first snow of the year, and can sometimes receive significant amounts. The entire area usually experiences freezing temperatures by mid month. The beginning of the month started out with a bang. A strong upper trough from the Pacific moved to the Borderland and with the infusion of considerable tropical moisture, spread showers and thunderstorms to much of the area beginning on the 2nd and lasting through the 3rd. The atmosphere was unstable enough to generate several reports of pea size to quarter size hail around southern New Mexico and west Texas (See picture slides).

While many of the mountain locations witnessed freezing temperatures in late October, the lowlands held out until the 13th, when most of the lowlands except the Bootheel saw freezing temperatures (see image 1). It only took a few more days to the morning of the 17th for the Bootheel to freeze, thus completing the first occurrence of freezing temperatures for the entire area (See image 2). The earliest first freeze and average first freeze dates are graphed out here (See image 3). Also late on the 16th into the morning of the 17th, the higher elevations of the Sacramento Mountains received their first significant snow with 4-5 inches in the Cloudcroft area.

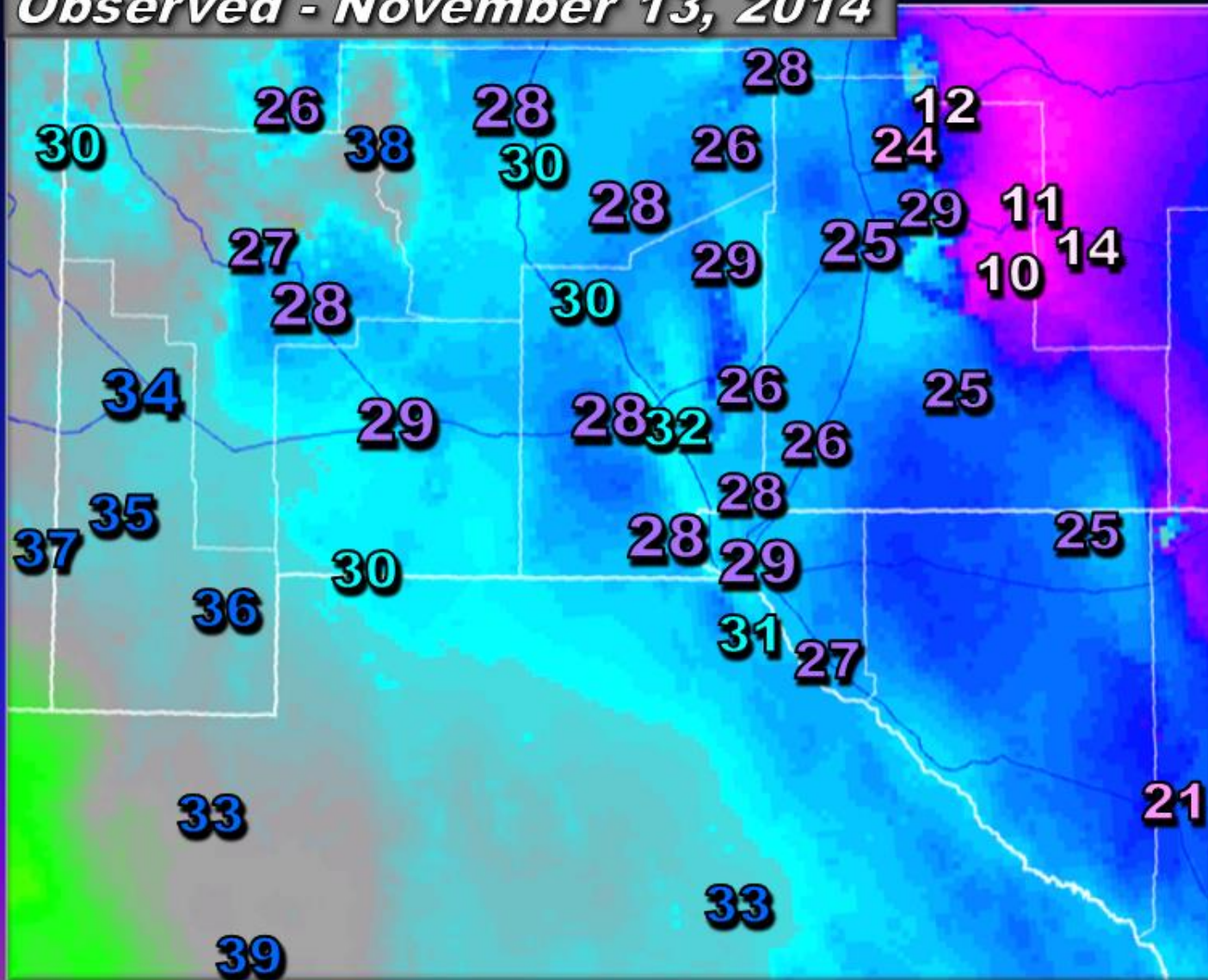
The only other significant weather event occurred on the 23rd as a strong upper

Weather Summary (continued)

level trough zipped across the central Rocky Mountains with strong winds at mid levels. These winds reached the surface in the afternoon and produced wind gusts of 40 to 65 mph over much of the area (See weather reports at bottom).

Thursday Morning Low Temperatures

Observed - November 13, 2014



First Freeze for much of the Borderland

Mesonet (Unofficial) and Preliminary Official Reports



IMAGE 2

Selected low temperatures for morning of Nov 17th

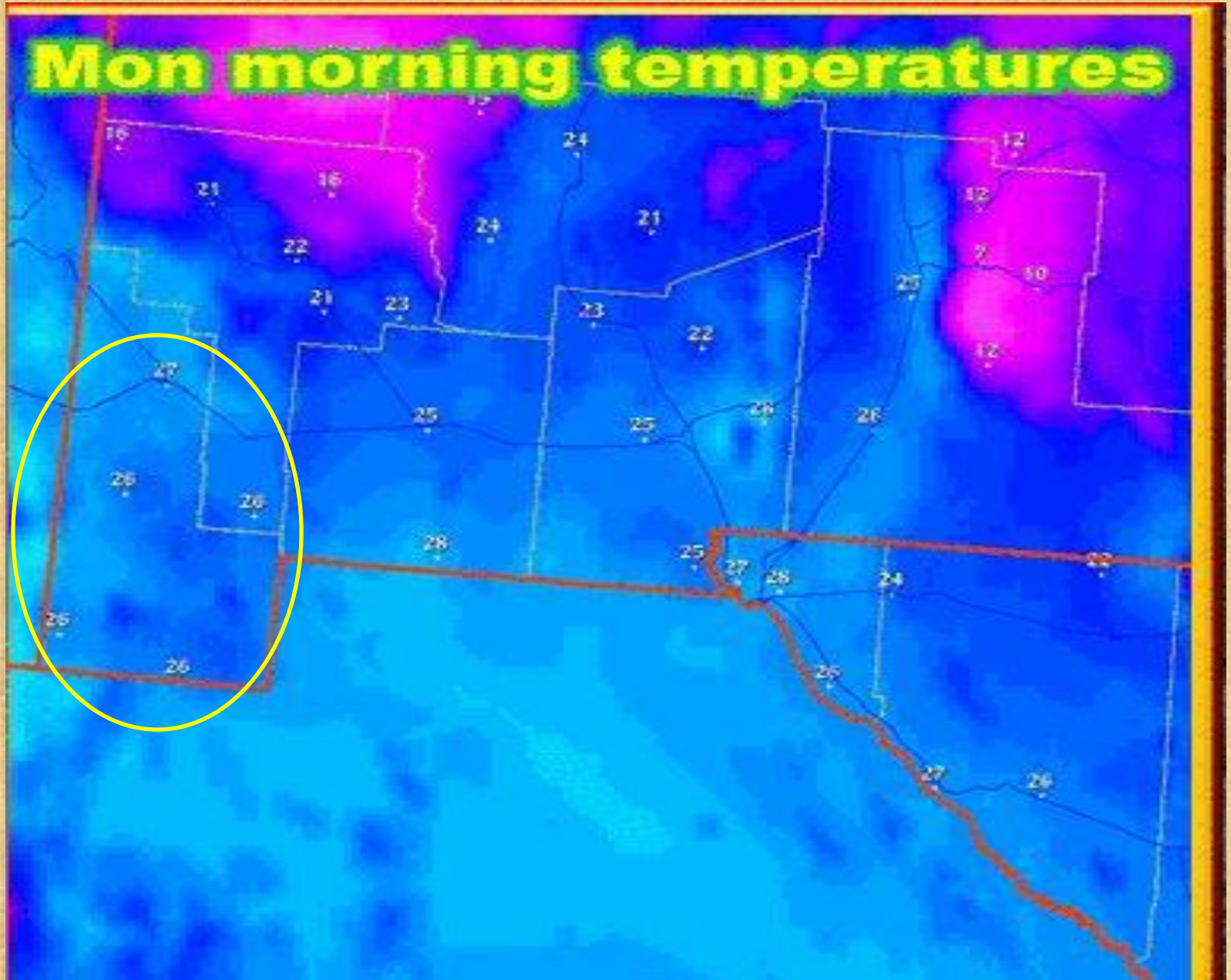
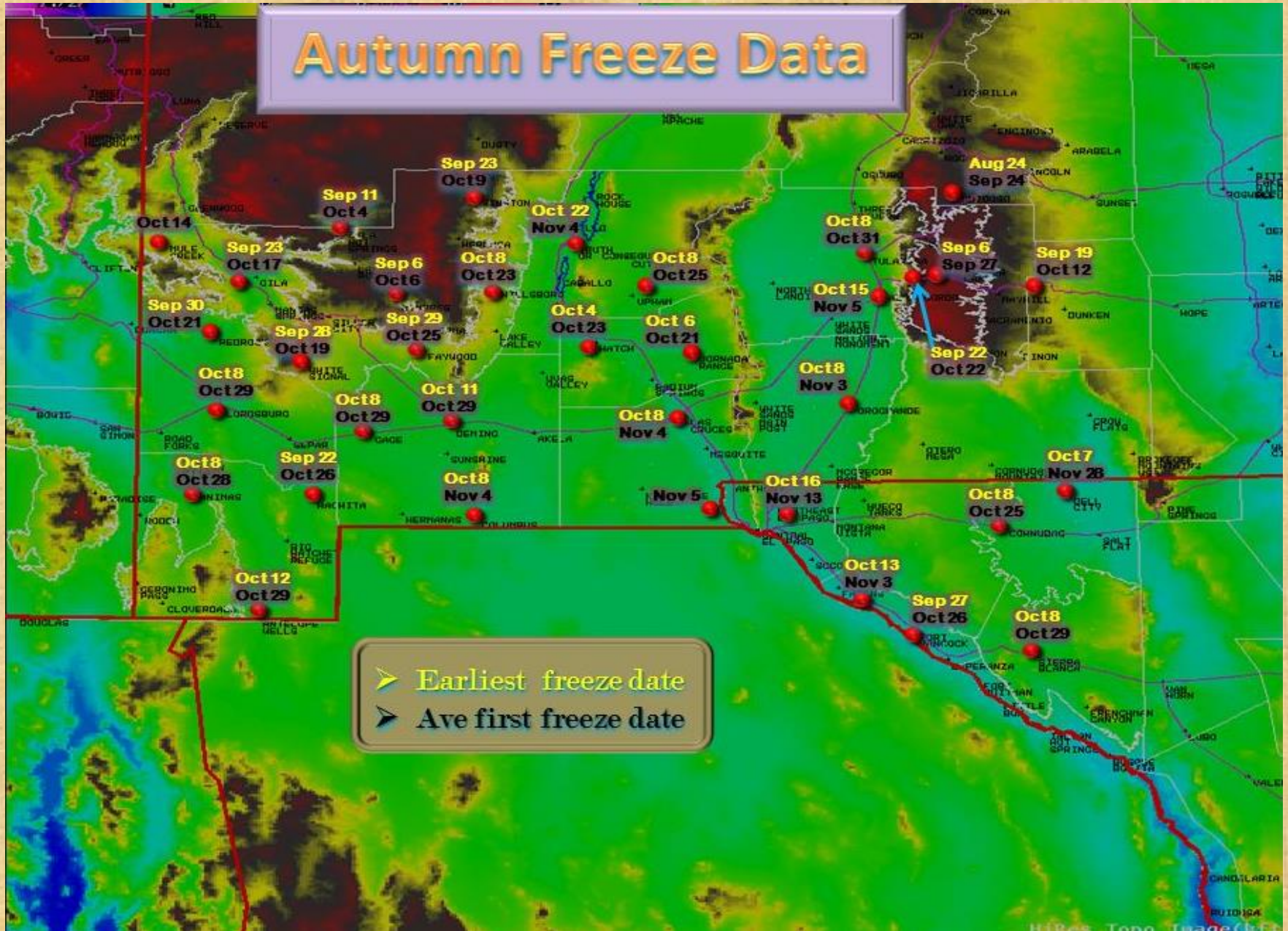


IMAGE 3

Autumn Freeze Data

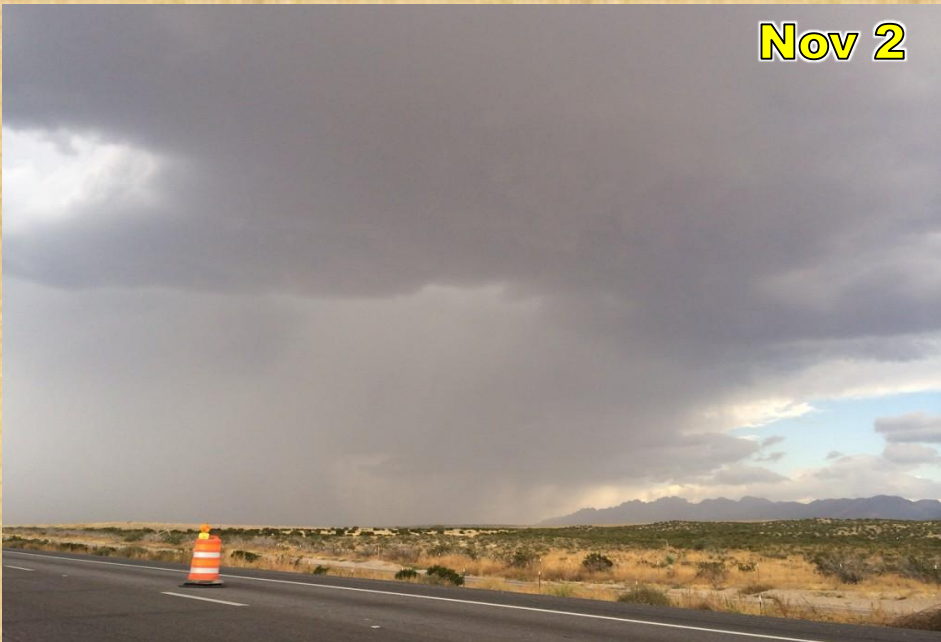


- Earliest freeze date
- Ave first freeze date

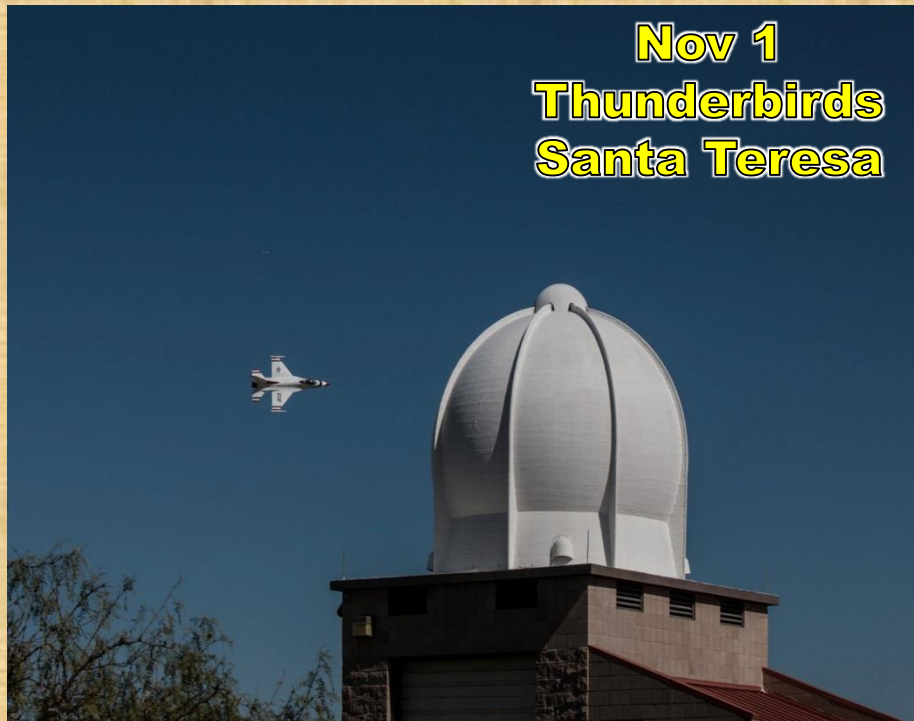
**Nov 2
Chaparral**



Nov 2



**Nov 1
Thunderbirds
Santa Teresa**



**Nov 2
Las Cruces**





Thunderstorm over Northeast El Paso viewed from the west side. This Storm had just passed over the Amigo airshow at the Dona Ana International Airport with Rain, hail and strong winds during the Afternoon of November 2nd.

HAIL SHAFT



The NWS in El Paso successfully forecast a break between two rounds of strong to severe thunderstorms allowing the Thunderbirds to make one more successful performance during the Amigo Airshow on the afternoon of November 2.

**Nov 2
El Paso**



© CloudcroftWebcam.com Sun Nov 16, 2014 11:50:59 AM

**Nov 16
Cloudcroft**



© CloudcroftWebcam.com Sun Nov 16, 2014 11:50:14 AM

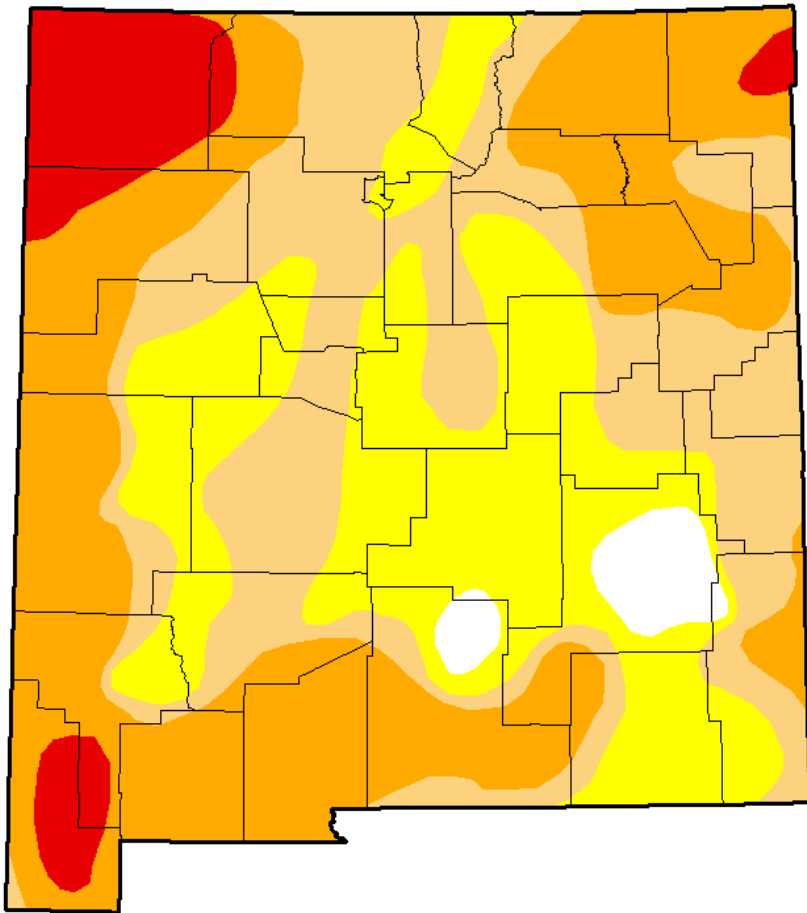
**Nov 16
Cloudcroft**



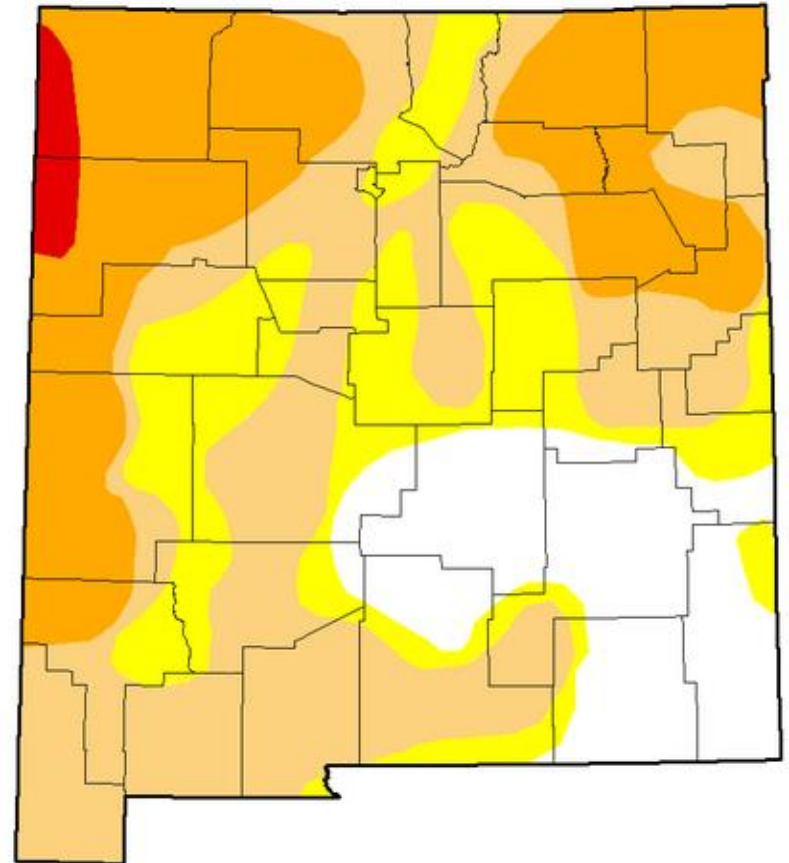
Current drought conditions for New Mexico and 3 month change

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

August 26



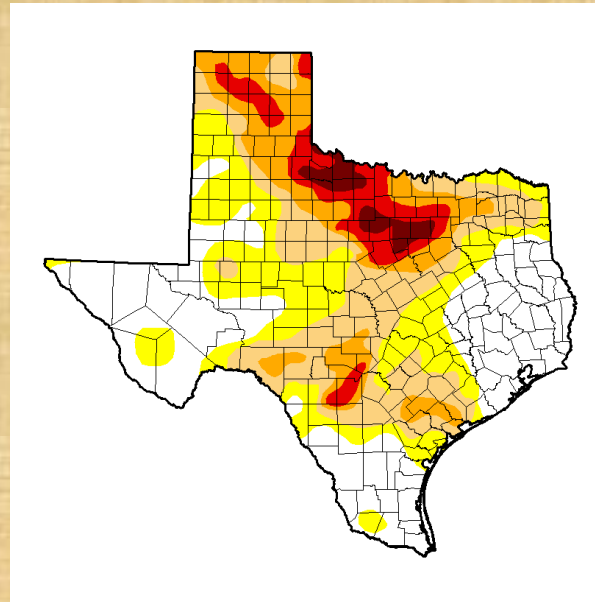
November 25



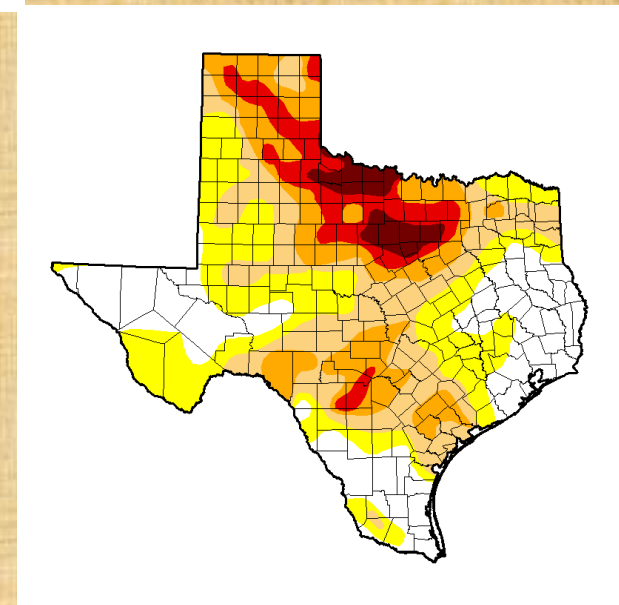
Current drought conditions for Texas.

Intensity:

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



11/25/2014



10/28/2014

Water outlook slowing improving.

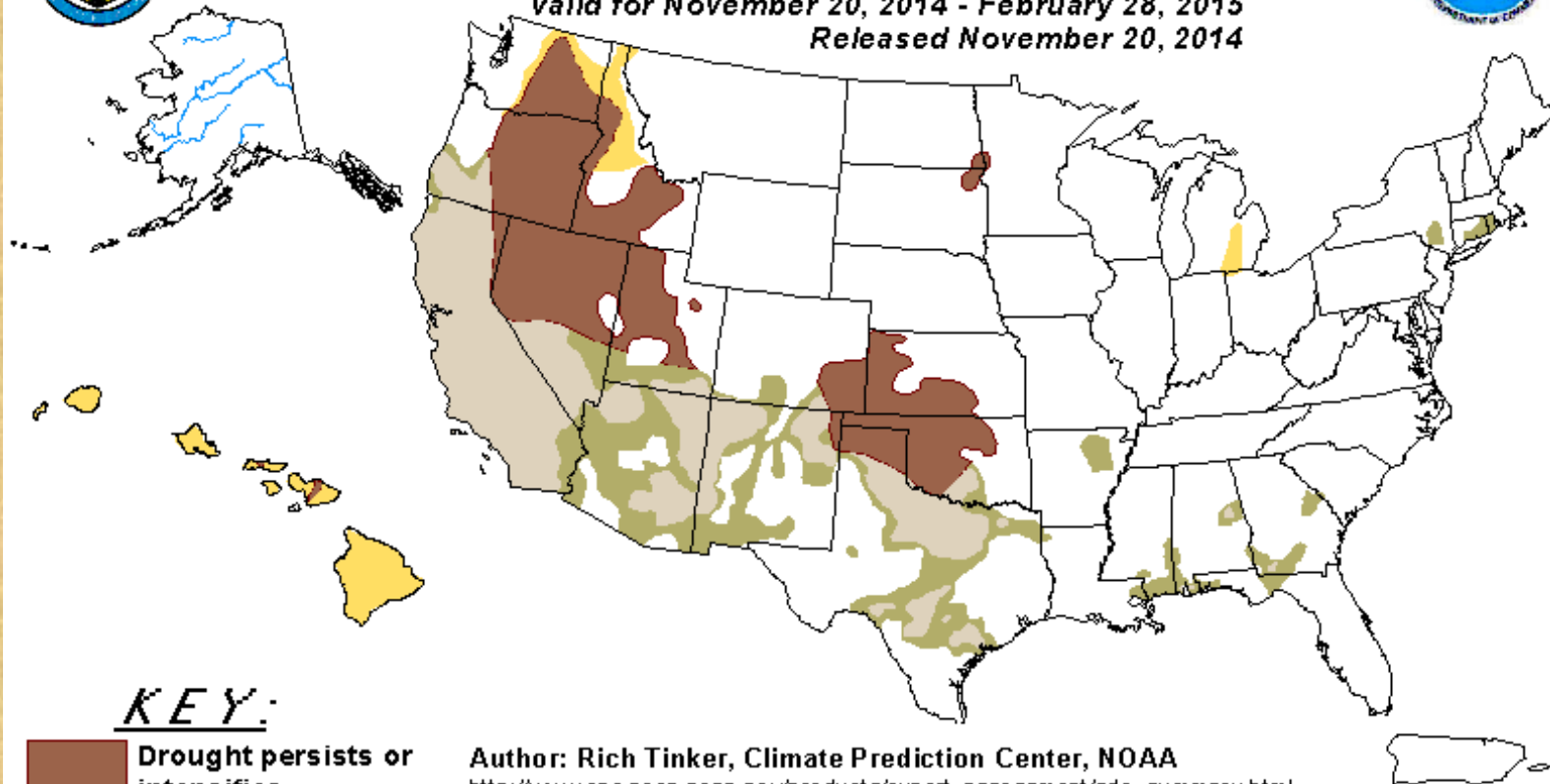


U.S. Seasonal Drought Outlook





Drought Tendency During the Valid Period

Valid for November 20, 2014 - February 28, 2015

Released November 20, 2014



KEY:

-  Drought persists or intensifies
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely

Author: Rich Tinker, Climate Prediction Center, NOAA

http://www.cpc.ncep.noaa.gov/products/expert_assessment/sdo_summary.html

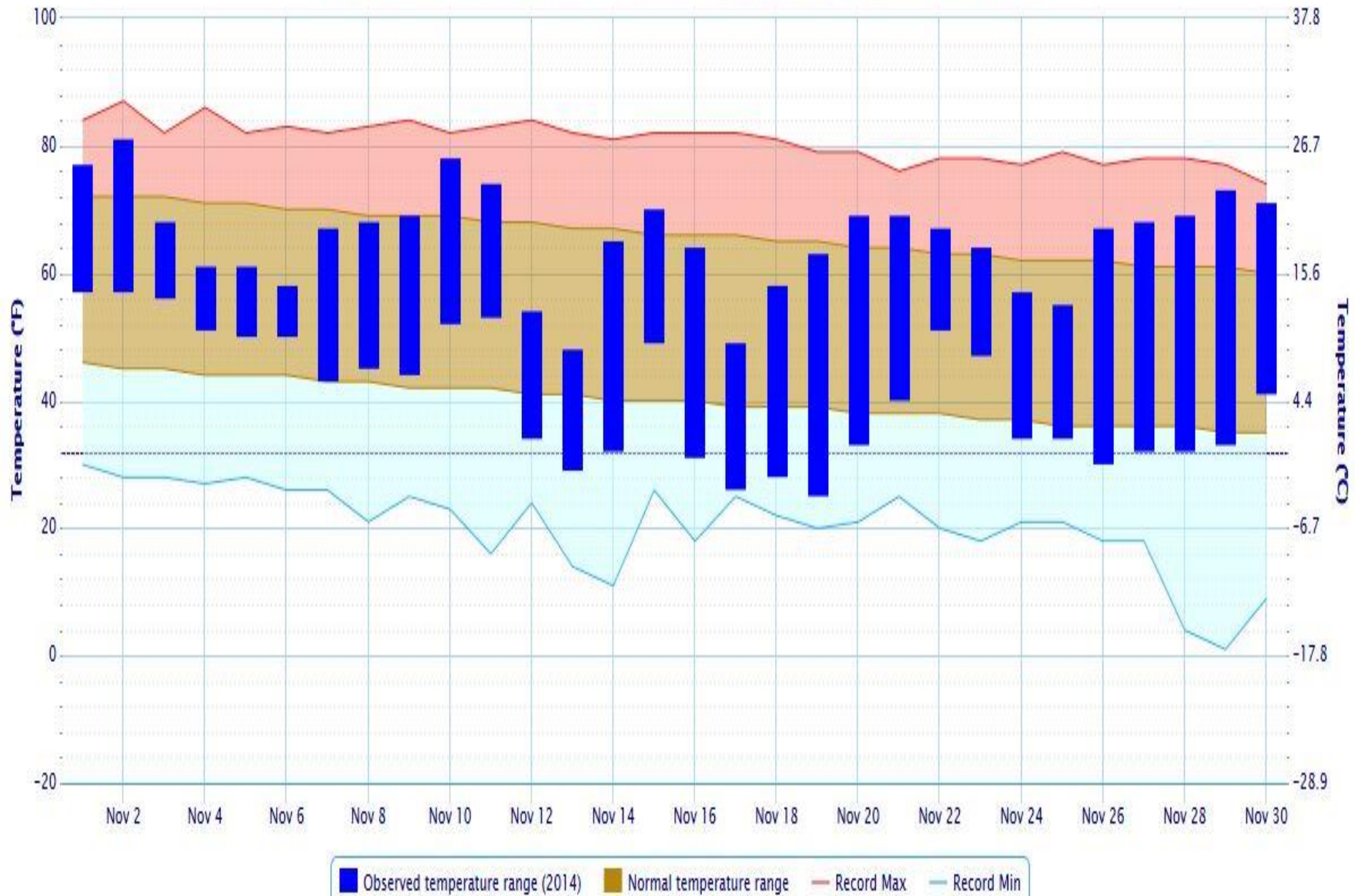
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor.

NOTE: The tan area areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain. The Green areas imply drought removal by the end of the period (D0 or none)

Daily Temperature Data - EL PASO INTL AP, TX

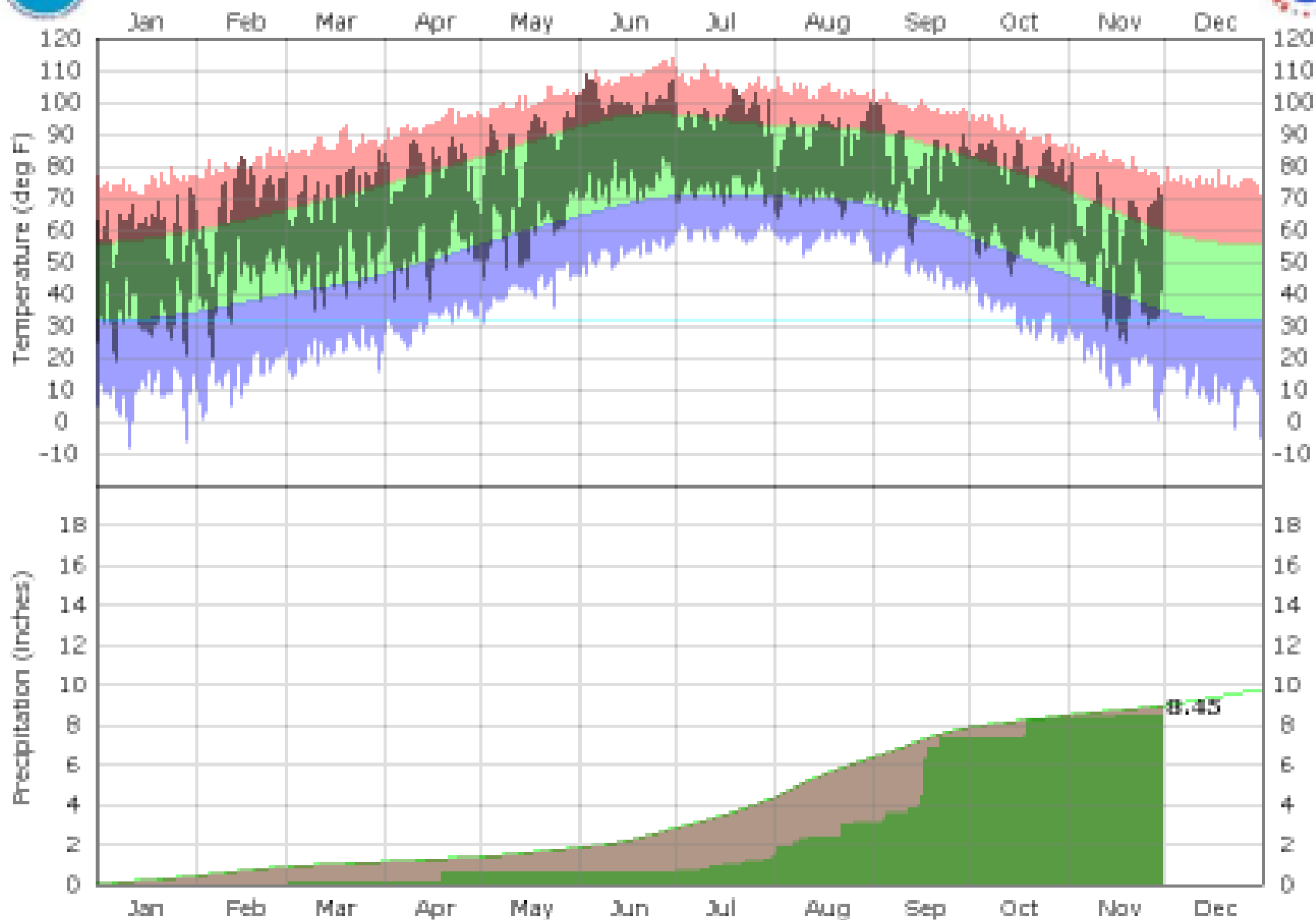


Period of Record - 1942-12-01 to 2014-11-30. Normals period: 1981-2010. Click and drag to zoom chart.

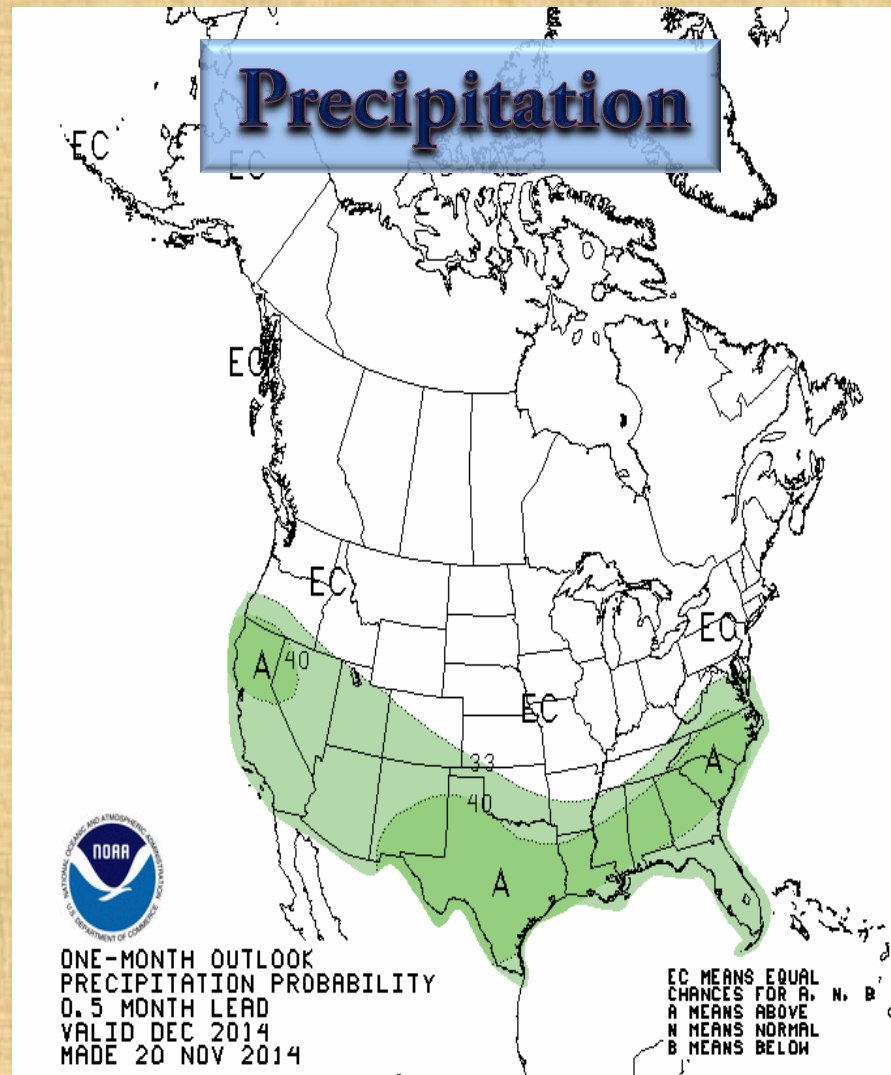
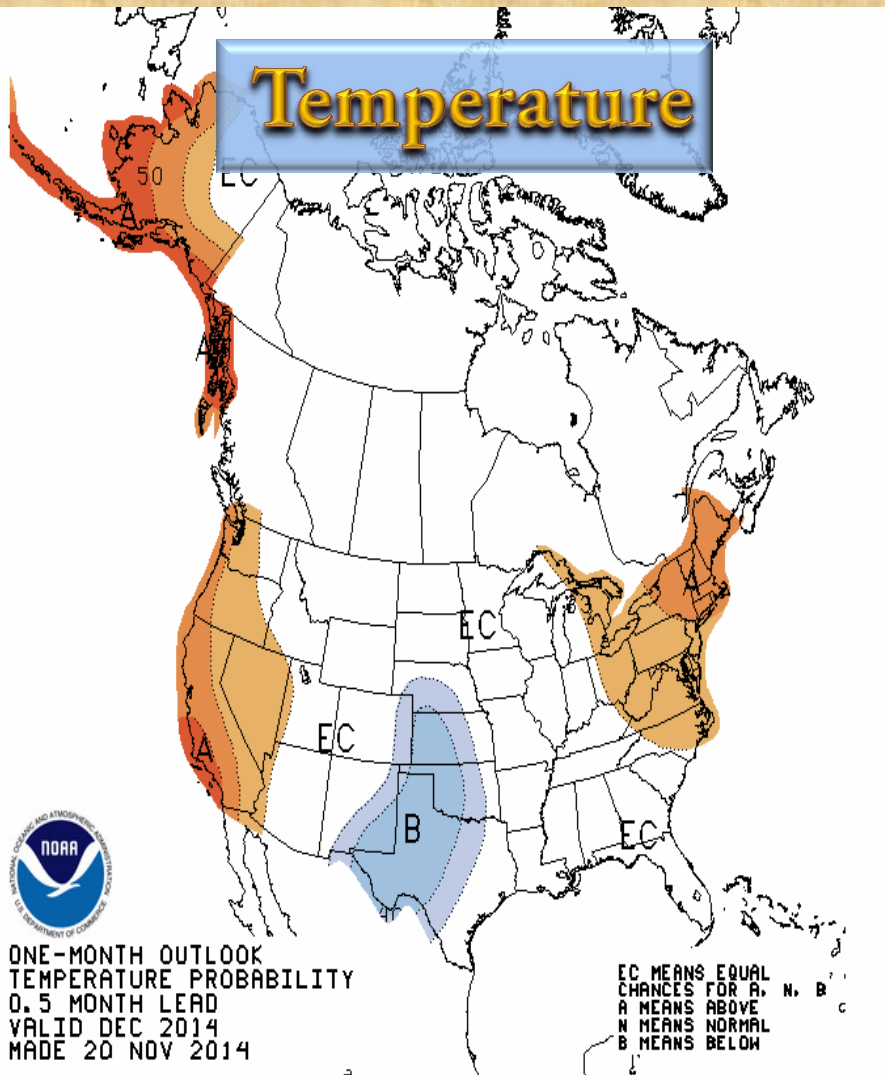




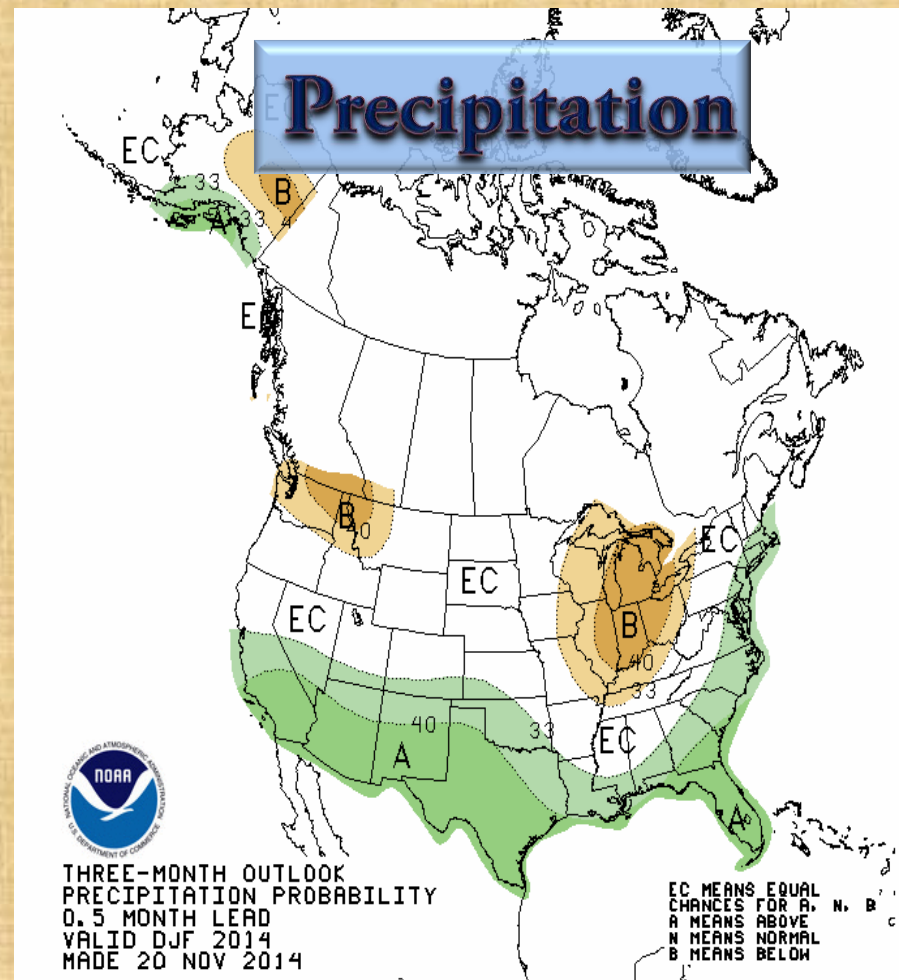
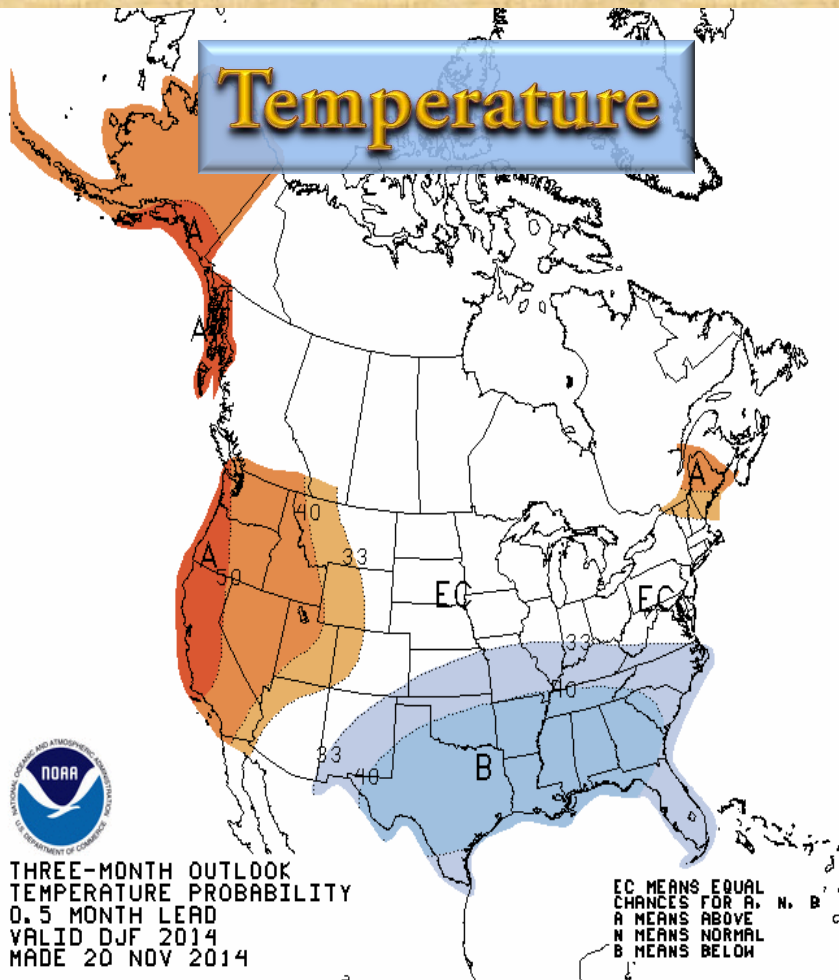
El Paso TX - 2014



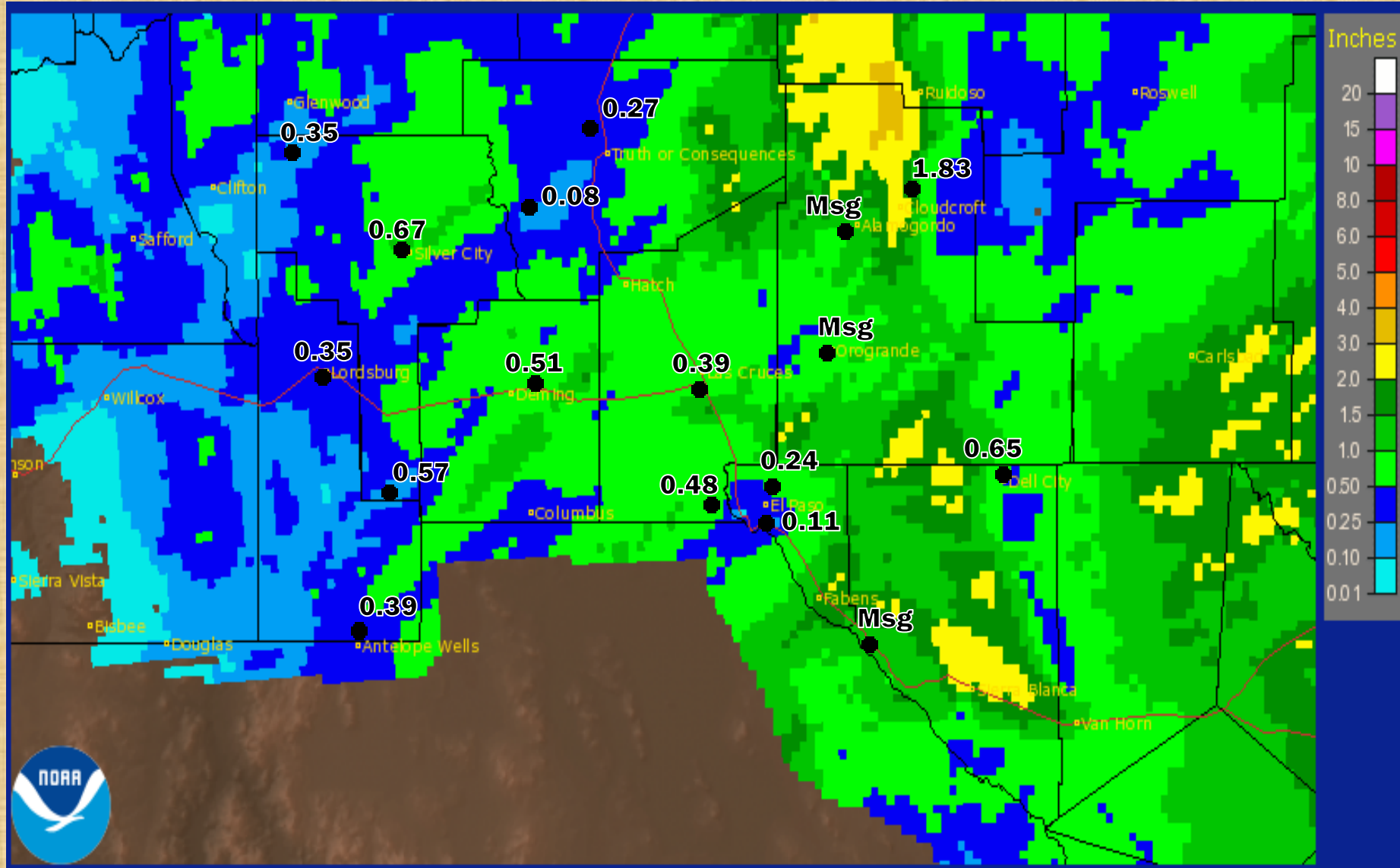
Temperature and precipitation outlook for December 2014



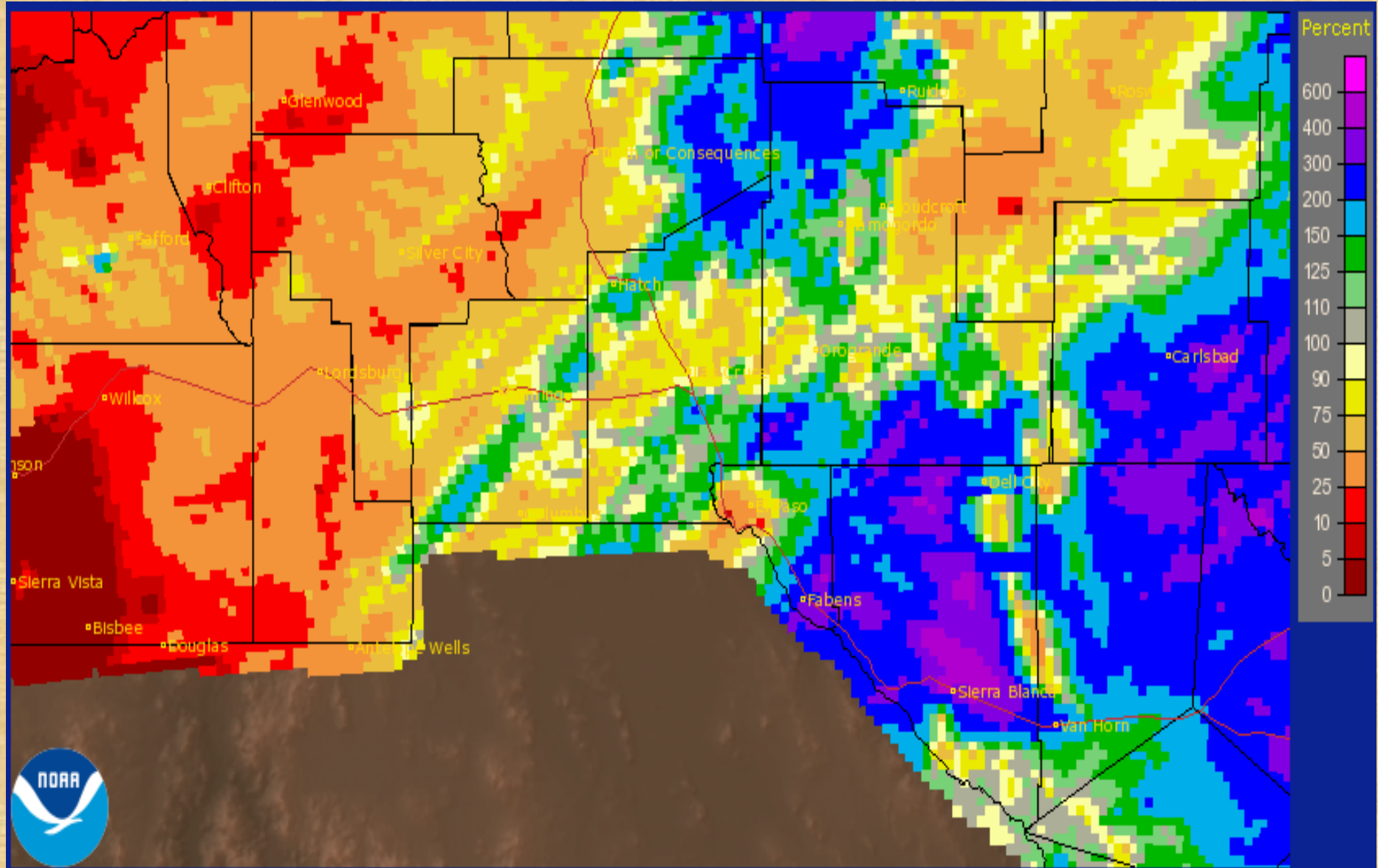
The Climate Prediction Center of the National Weather Service is predicting slightly cooler than normal temperatures with above normal precipitation for the Borderland for the months of December through February courtesy of a forecast El Nino event.



November 2014 radar rainfall estimate with surface rainfall reports

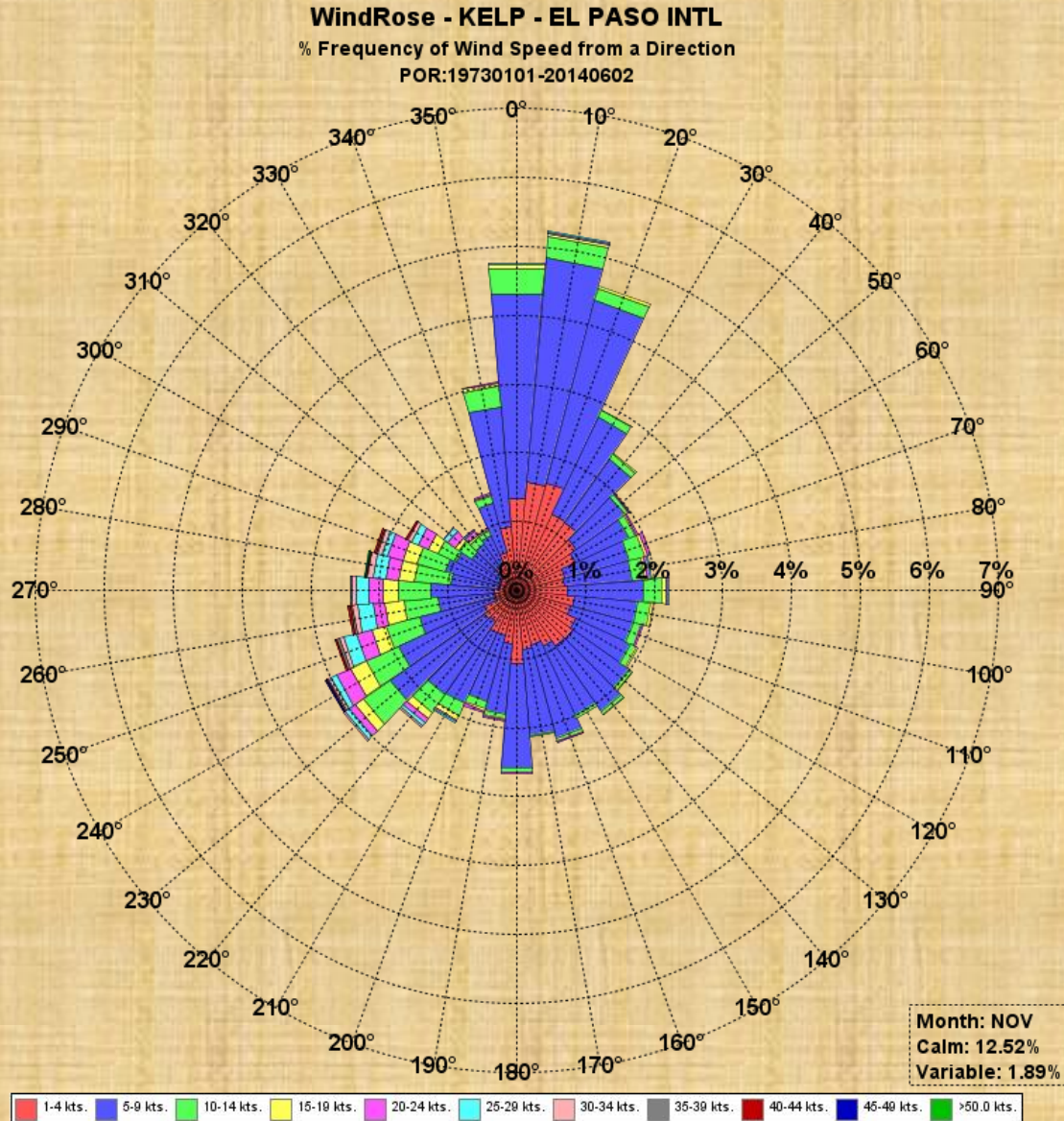


November 2014 Radar Rainfall Estimate (Percent of normal)



Special Features

<http://www.srh.noaa.gov/epz/?n=elpwindrosedata>



Weather reports November 2014

Date/Time	Location	Event
11/03/2014 700 AM	13 WSW TYRONE-GRANT CO	1.17 INCH HEAVY RAINFALL
11/03/2014 607 AM	3 E SIGNAL PEAK-GRANT CO	0.98 INCH HEAVY RAINFALL
11/03/2014 700 AM	5 W SILVER CITY-GRANT CO	0.95 INCH HEAVY RAINFALL
11/03/2014 700 AM	4 N SILVER CITY-GRANT CO	0.89 INCH HEAVY RAINFALL
11/03/2014 700 AM	3 SE SILVER CITY-GRANT CO	0.86 INCH HEAVY RAINFALL
11/03/2014 800 AM	TYRONE-GRANT CO	0.83 INCH HEAVY RAINFALL
11/03/2014 700 AM	29 W DEMING-GRANT CO	0.78 INCH HEAVY RAINFALL
11/03/2014 700 AM	4 NW SILVER CITY-GRANT CO	0.71 INCH HEAVY RAINFALL
11/03/2014 700 AM	20 W COLUMBUS-LUNA CO	1.25 INCH HEAVY RAINFALL
11/03/2014 700 AM	11 SSE DEMING-LUNA CO	1.02 INCH HEAVY RAINFALL
11/03/2014 700 AM	19 NNE DEMING-LUNA CO	0.90 INCH HEAVY RAINFALL
11/03/2014 700 AM	11 N DEMING-LUNA CO	0.70 INCH HEAVY RAINFALL
11/03/2014 700 AM	2 S CLOUDCROFT-OTERO CO	0.92 INCH HEAVY RAINFALL
11/03/2014 641 AM	MESCALERO-OTERO CO	0.84 INCH HEAVY RAINFALL
11/03/2014 700 AM	CLOUDCROFT-OTERO CO	0.82 INCH HEAVY RAINFALL

Weather reports November 2014

Date/Time	Location	Event
11/04/2014 720 AM	TULAROSA-OTERO CO	0.25 INCH HAIL
11/10/2014 155 PM	SAN AUGUSTIN PASS-DONA ANA	74 MPH PEAK WIND
11/10/2014 120 PM	1SE WSMR-DONA ANA CO	55 MPH PEAK WIND
11/10/2014 238 PM	TWIN PEAKS-DONA ANA CO	55 MPH PEAK WIND
11/10/2014 1235 PM	WSMR MAIN POST-DONA ANA CO	53 MPH PEAK WIND
11/10/2014 1241 PM	3 WNW MAYHILL-OTERO CO	47 MPH PEAK WIND
11/10/2014 556 PM	1 SW HIGH ROLLS-OTERO CO	46 MPH PEAK WIND
11/10/2014 1137 AM	28 ENE OROGRANDE-OTERO CO	45 MPH PEAK WIND
11/10/2014 240 PM	SALINAS PEAK-SIERRA CO	46 MPH PEAK WIND
11/10/2014 113 PM	13 NNE EL PASO	45 MPH PEAK WIND
11/12/2014 1013 PM	6 NNW EL PASO	54 MPH THUNDERSTORM GUST
11/17/2014 800 AM	CLOUDCROFT-OTERO CO	5.0 INCHES HEAVY SNOW
11/17/2014 800 AM	CLOUDCROFT COOP-OTERO CO	4.5 INCHES HEAVY SNOW
11/23/2014 800 AM	10 NNE EL PASO	64 MPH PEAK WIND
11/23/2014 205 AM	SAN AUGUSTIN PASS-DONA ANA	64 MPH PEAK WIND

Weather reports November 2014

Date/Time	Location	Event
11/23/2014 1155 AM	3 SE CHAPARRAL-OTERO CO	56 MPH PEAK WIND
11/23/2014 1035 AM	EL PASO AIRPORT	55 MPH PEAK WIND
11/23/2014 720 AM	2 SE DEMING- LUNA CO	52 MPH PEAK WIND
11/23/2014 1215 PM	DEMING AIRPORT	51 MPH PEAK WIND
11/23/2014 224 PM	TRUTH OR CONSQ AIRPORT	50 MPH PEAK WIND