October 2015 Weather Digest

Weather Summary

August In Pictures

Special Features

Temperature & Precipitation

Severe Weather

October 2015 Weather Summary

After a relatively quiet September, October roared in like a lion. The strong El Niño pattern which is strengthening for this winter season, apparently is starting to assert itself. October witnessed a pattern reminiscent of El Niño, as the westerly flow brought numerous upper lows across the region. On October 3rd, one such event took place with a large upper low over Arizona giving our area several days of thunderstorms. Some of these storms reached the sever stage, mostly for hail. Las Cruces was particularly hard hit with hail, resulting in numerous damage reports to cars and homes.

This same upper low drifted out over the eastern Pacific and then the westerlies aloft brought the low back over the area on the 16th through 19th. Again numerous thunderstorms with scattered severe storms were reports across much of southern New Mexico and west Texas. Large hail was again the main impact, and several reports of flooding were also reported. Fortunately, the week in between these two periods of thunderstorms, was quite nice with very few clouds and temperatures back to well above normal. The last 90 degree days of the year were recorded at various lowland sites around the area.

One more period, the 29th and 30th, became active as another upper low swept east across the area. Severe weather was at a minimum with just a few hail reports. However, heavy rainfall and flooding was much more common. Also the first snow of the season was reported at Cloudcroft.

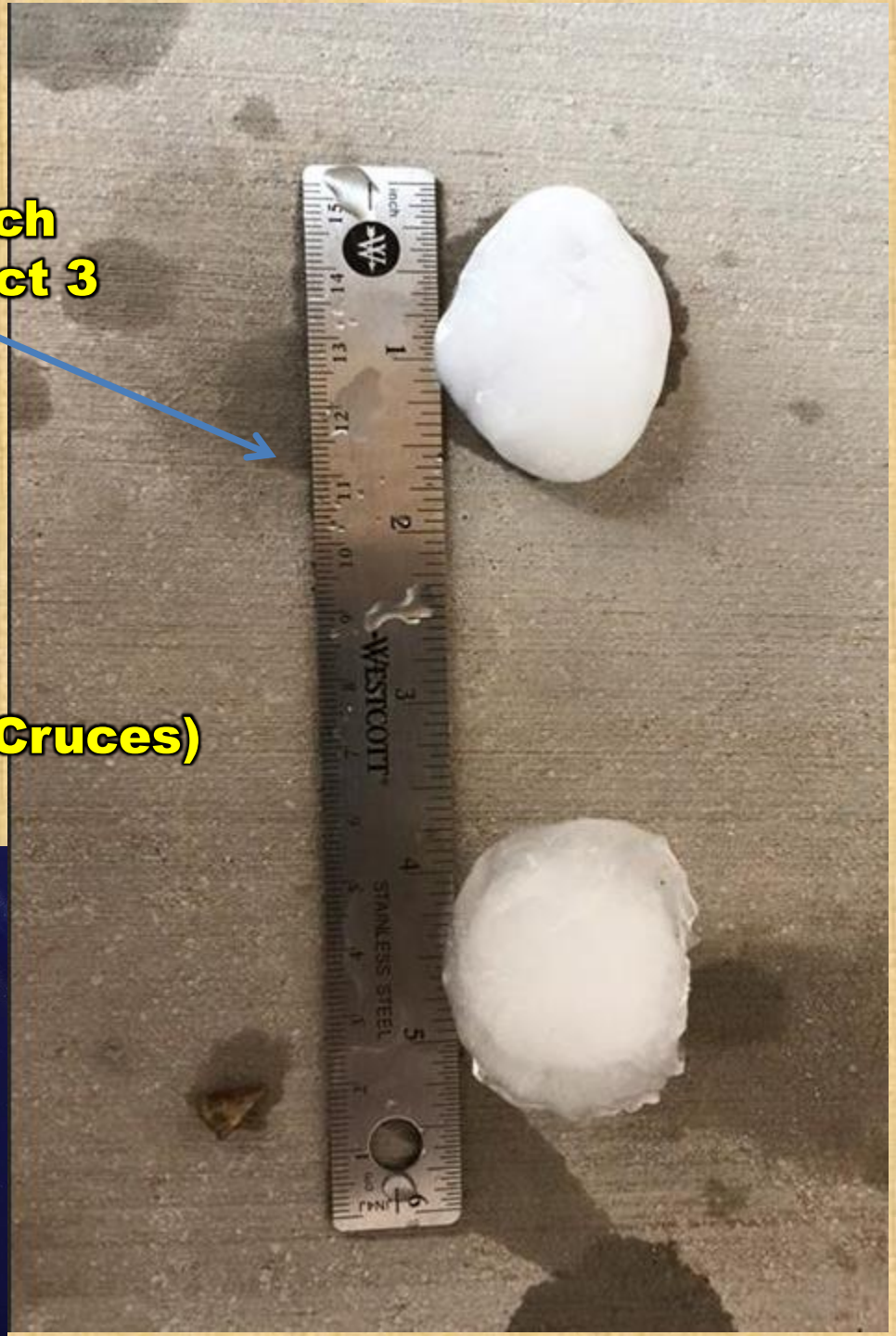
October 2015 Weather Summary (cont'd)

Looking at temperatures for the month, October was fairly normal for an active month. Lots of rainy periods usually mean below normal high temperatures and above normal low temperatures. And that is just what we got. In fact, with low temperatures remaining above normal, our freeze season was much delayed. Mountain sites on average see their first freeze from very late September through mid October. Only the higher elevations of the mountains such as Cloudcroft experienced their first freeze and that was not until around the 20th. Most of the lowland towns, excepting the Las Cruces-El Paso corridor, receive their first freeze between the middle of the month to the end. Only on the last day of the month did freezing temperatures finally hit the upper valleys of the Gila Wilderness. The remainder of the lowlands have yet to see a freeze. For comparison the Las Cruces-El Paso corridor average their first freeze the first two weeks of November.

Precipitation was once again plentiful for the most part. Most of the area east of the Continental Divide was above normal. West of the divide, the area was below normal, but not significantly.

Sonoma Ranch
(Las Cruces) Oct 3

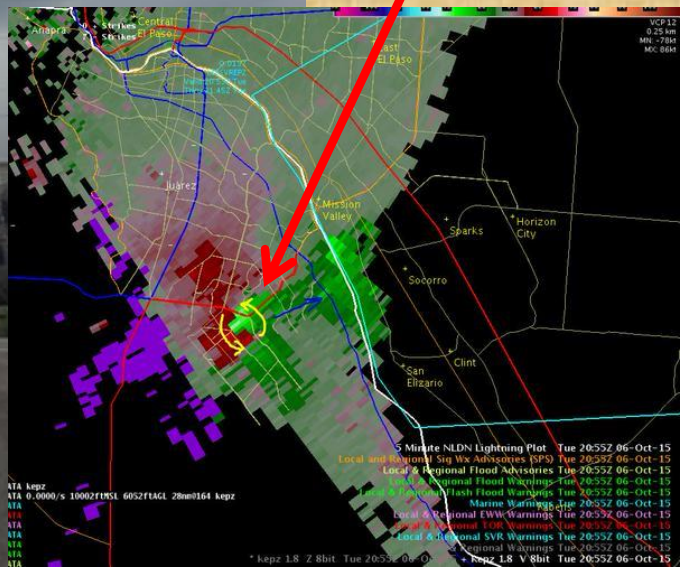
Elks Drive (Las Cruces)
Oct 3



Lower Valley (El Paso) Oct 6:

No confirmed tornadoes but well defined rotation on weather radar.

Rotation couplet



Horizon City Oct 6

Socorro and Horizon City
Oct 6

Landspout Southeast of Lordsburg October 7

Alamogordo Oct 6

Las Cruces Oct 6

Fabens Oct 5

Fabens Oct 6

Hailstorms around the area: Oct 20

More Hailstorms around the area

El Paso Oct 20

Horizon City Oct 6

Horizon City Oct 6

El Paso Oct 20

Not a good day for tennis (El Paso)

The Impact of severe storms

Hail

Hail

"Raining" inside JC Penney

First snow of the year: Cloudcroft Oct 30

This storm dumped a lot of hail over West El Paso. Oct 21

Just to the north, snow fell on Sierra Blanca. Oct 20

Shallow fog along the Rio Grande. Oct 31

El Paso Ties Record High for Oct. 14th set in 1968

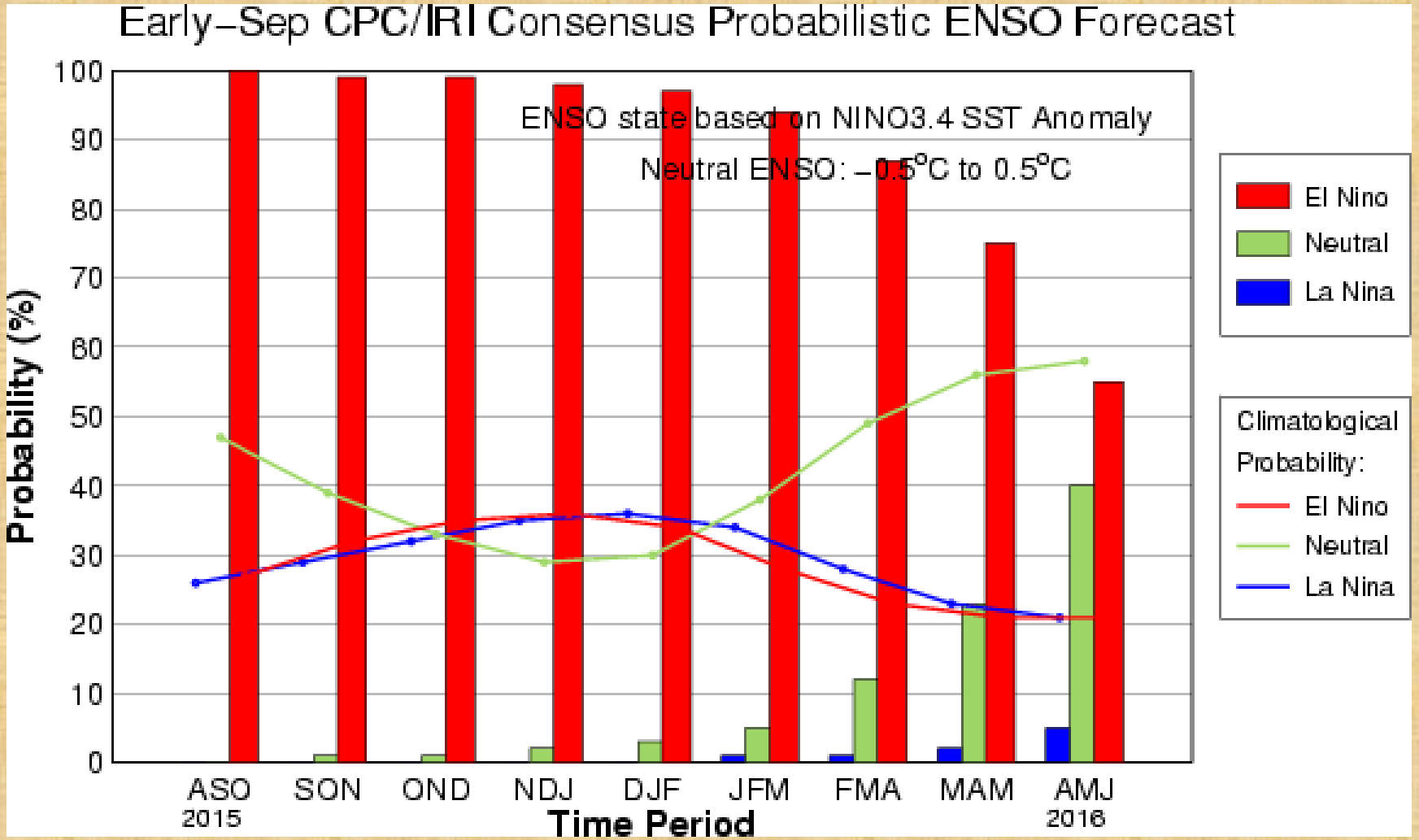
Normal High is 79°

92

El Paso, Texas

Today's High Temperature

ENSO Forecast from September 10, 2015

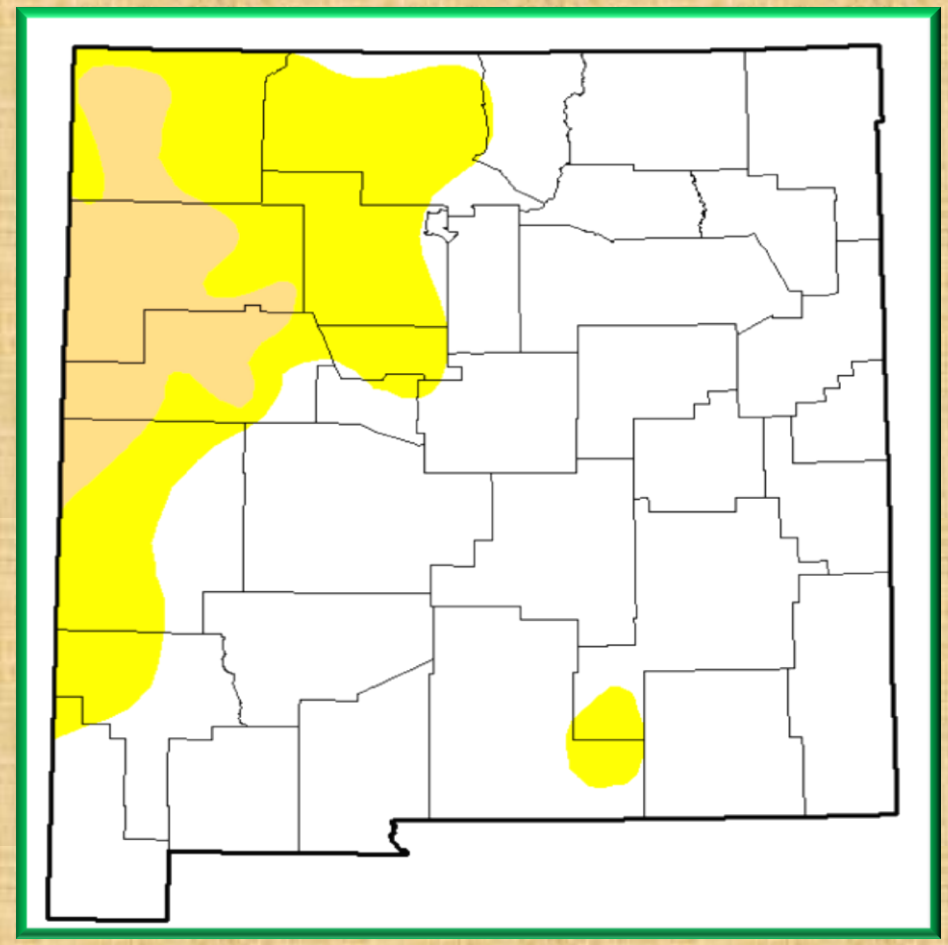


STRONG EL NINO STILL FORECAST INTO SPRING OF NEXT YEAR.

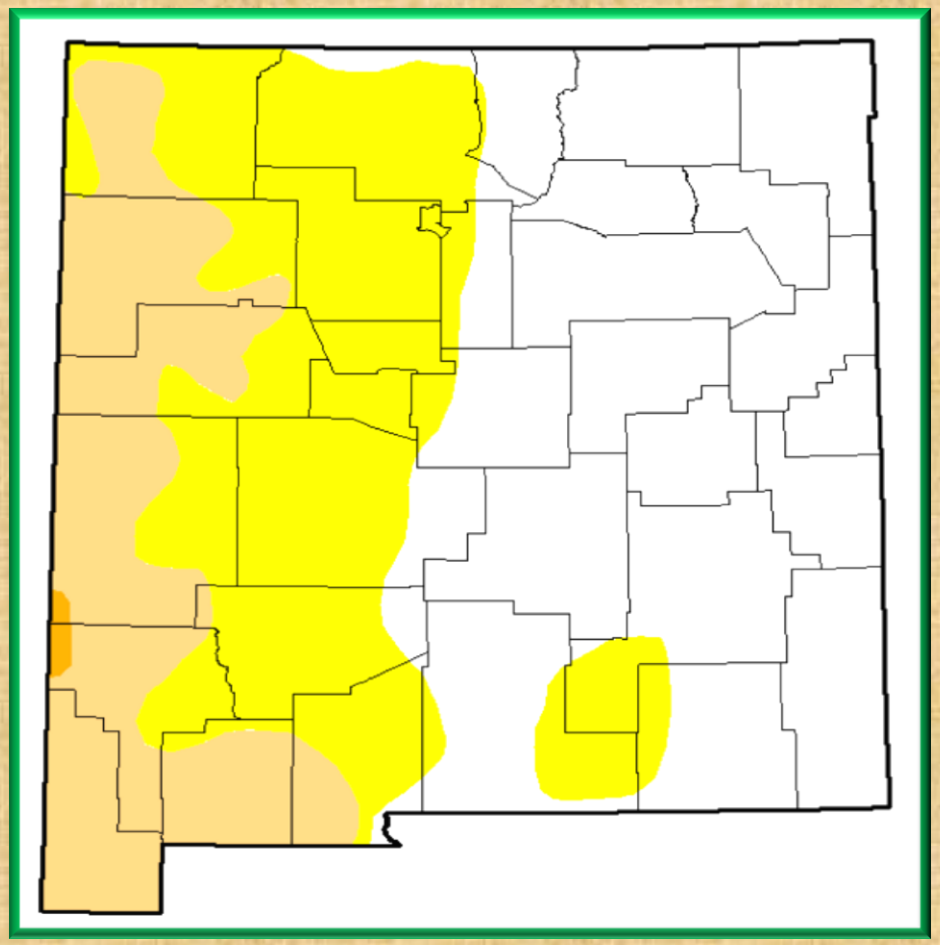
Current drought conditions for New Mexico and 3 month change

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

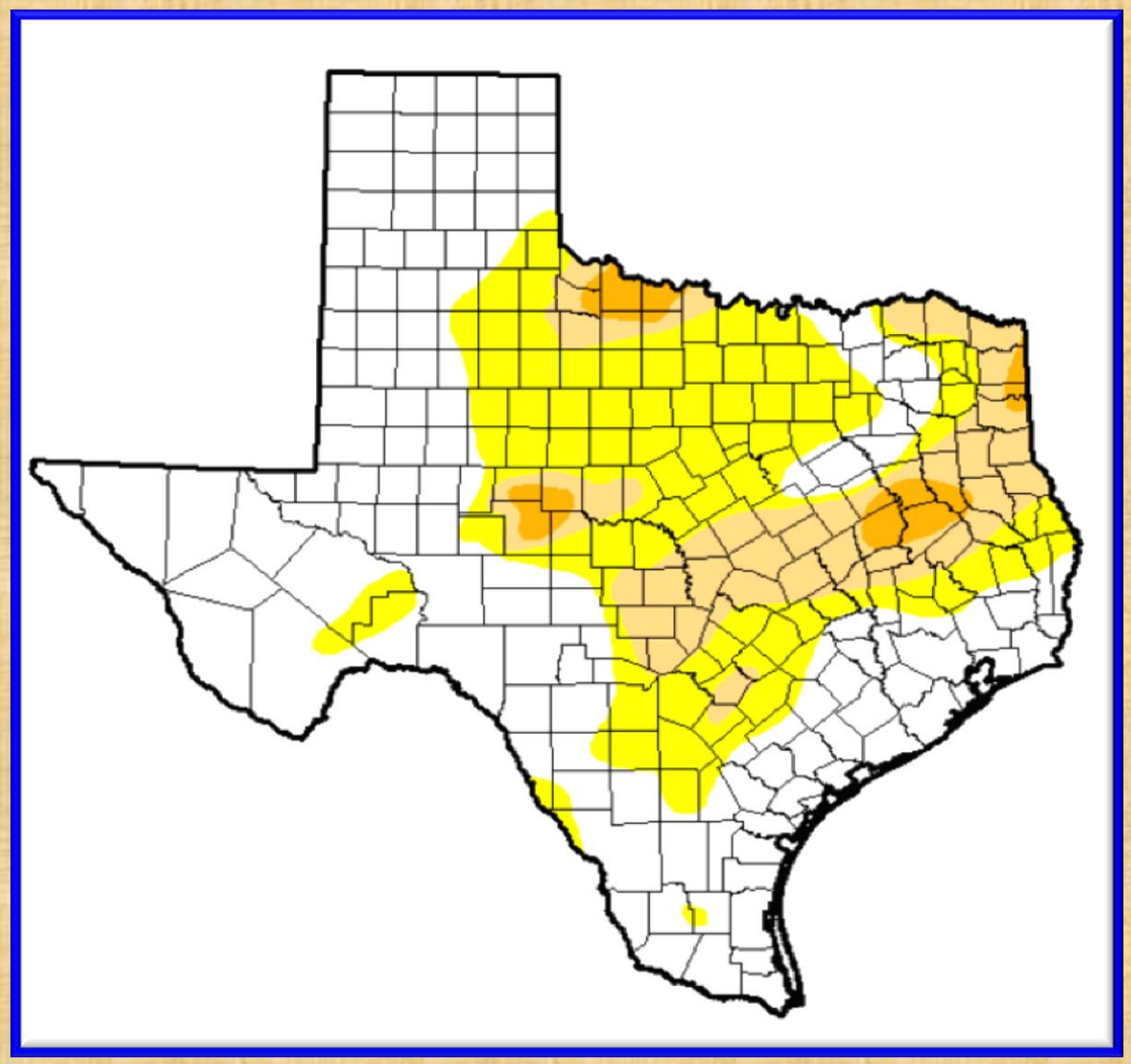
October 27, 2015



July 28, 2015



Current drought conditions for Texas as of October 27, 2015



Intensity:

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

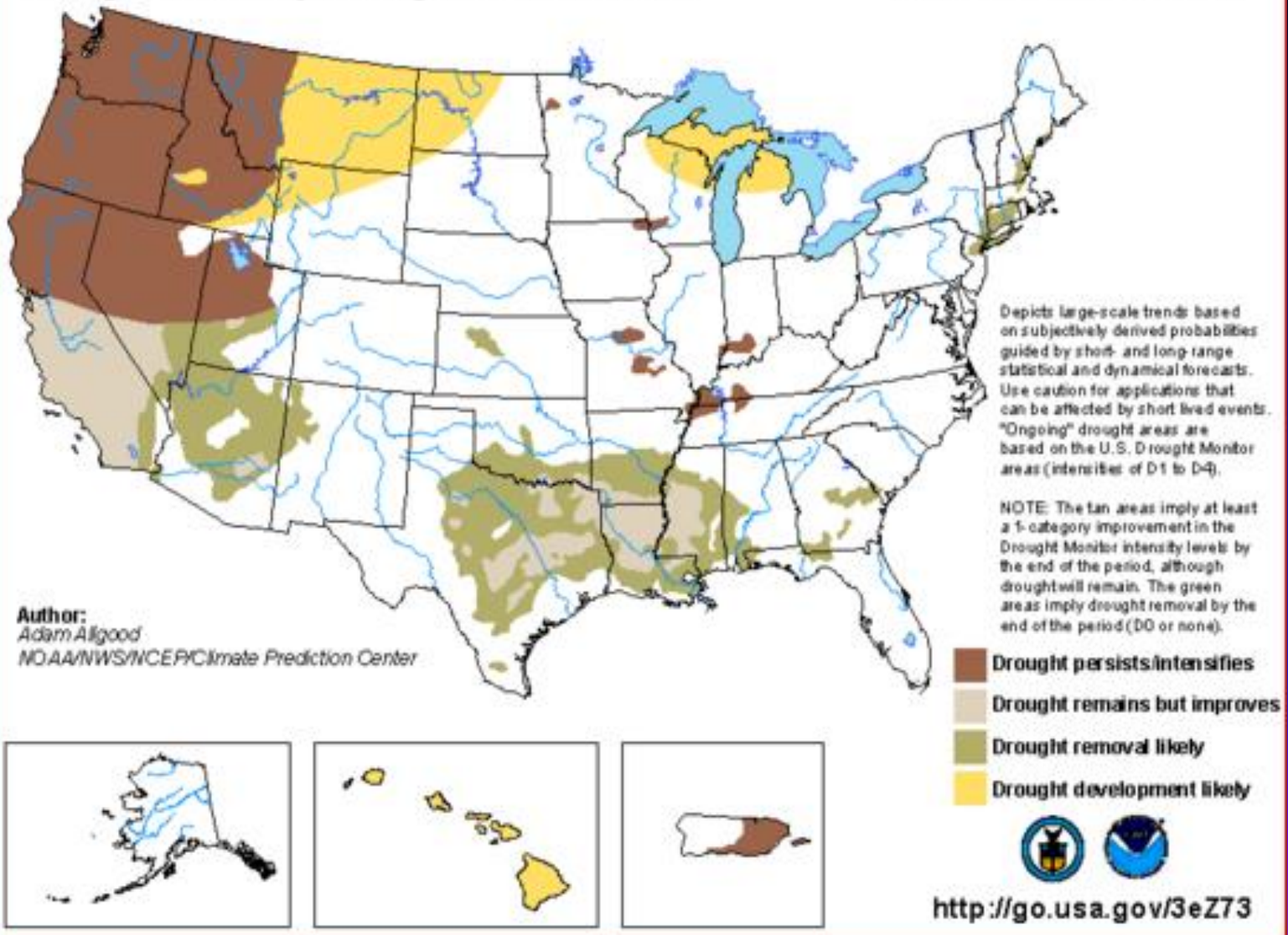
Build your own custom slider maps here at:

http://droughtmonitor.unl.edu/MapsandData/ComparisonSlider.aspx

U.S. Seasonal Drought Outlook

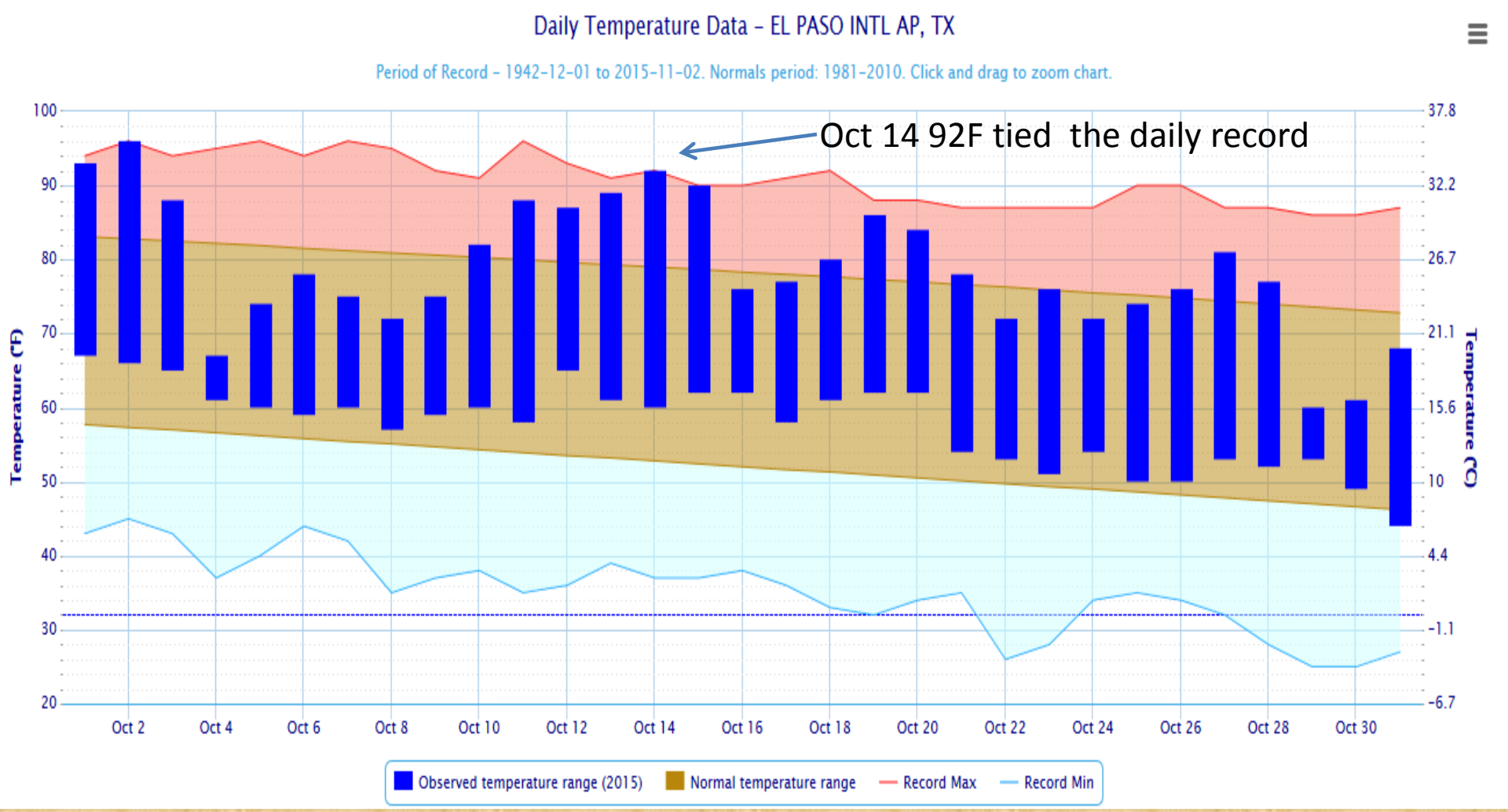
Drought Tendency During the Valid Period

Valid for October 15 - January 31, 2016
Released October 15, 2015

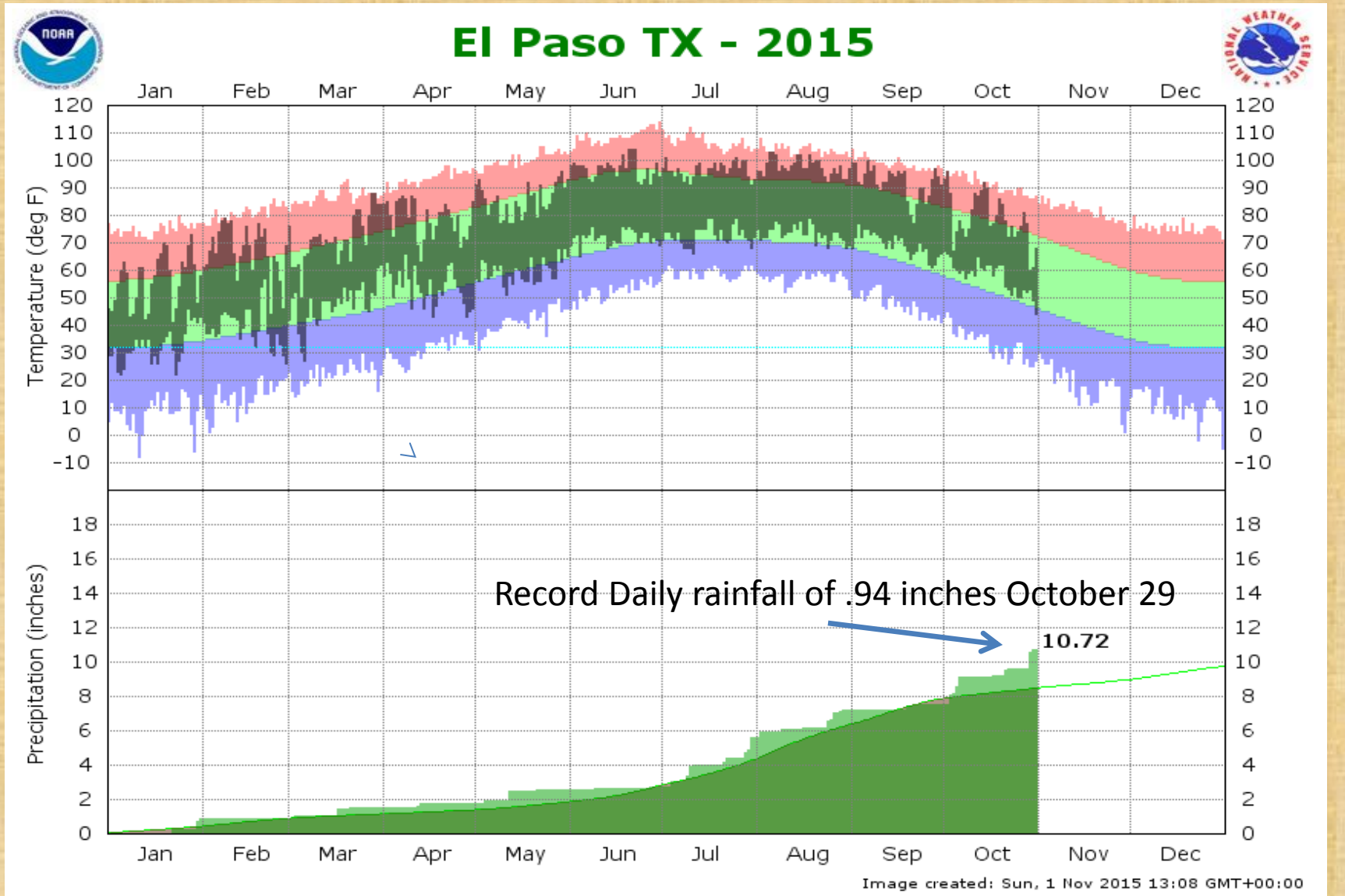


Author:
Adam Allgood
NOAA/NWS/NCEP/Climate Prediction Center

Daily temperature data for September in El Paso



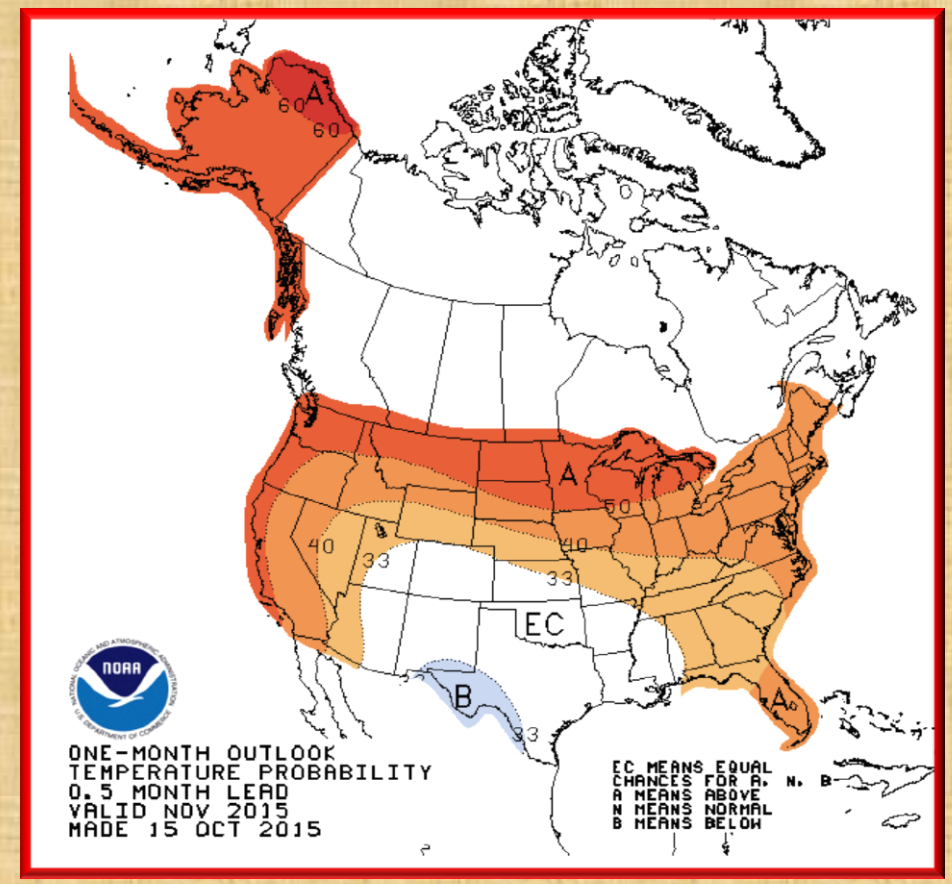
Daily temperature/precipitation data for October in El Paso



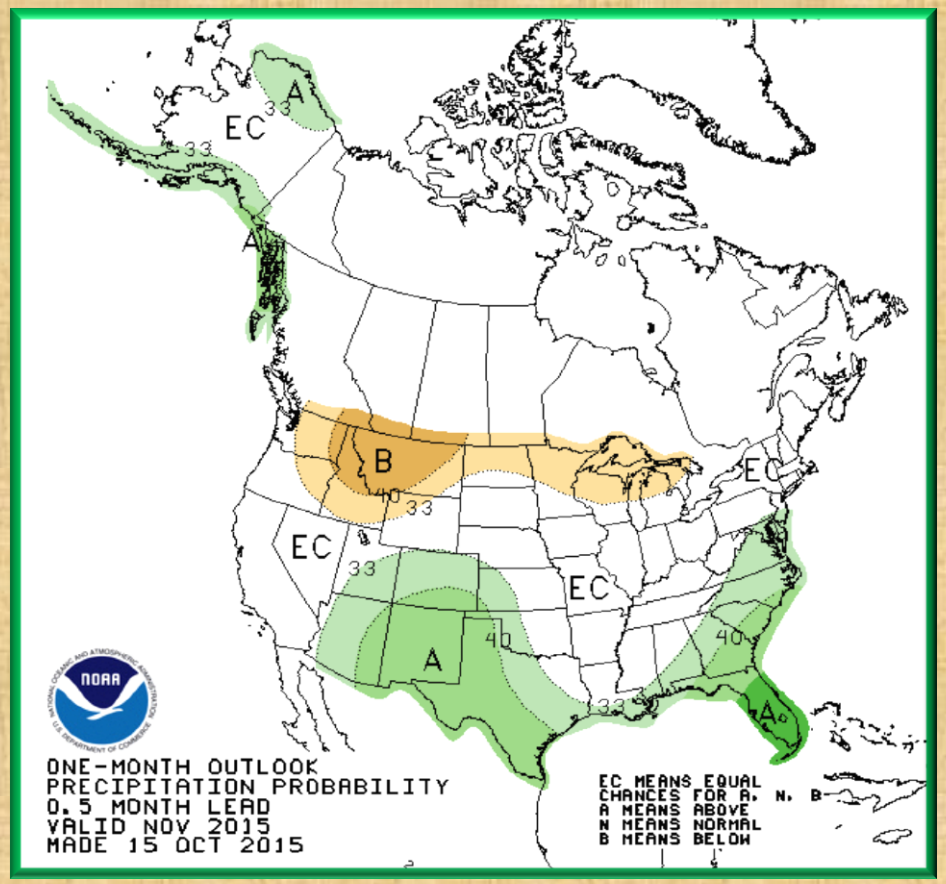
Temperature and Precipitation Plot for El Paso, Texas for 2015

Temperature and precipitation outlook for November 2015

Temperature

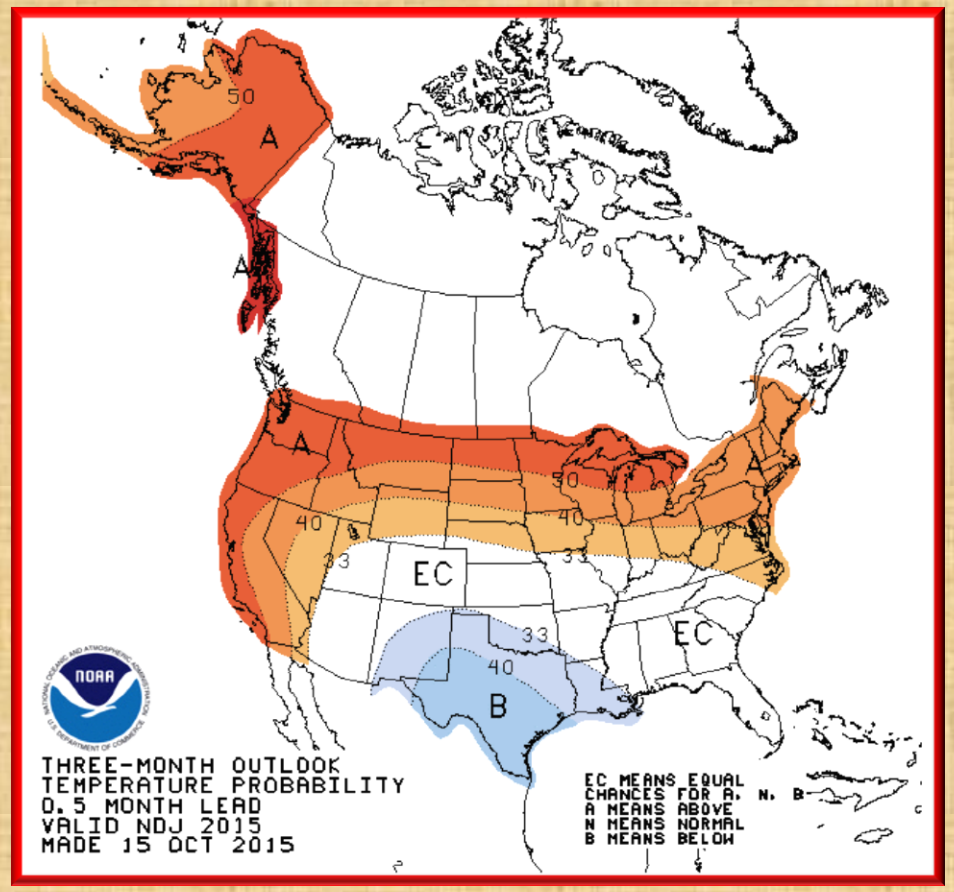


Precipitation

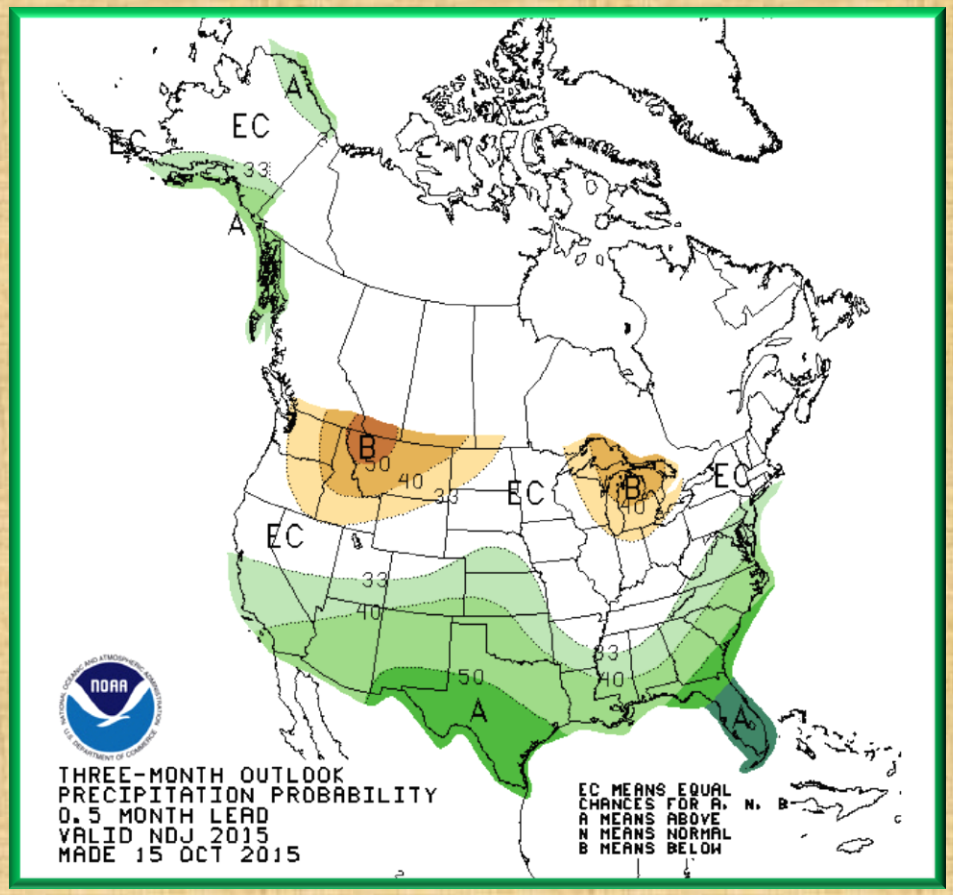


Temperature and precipitation outlook for Nov - Jan 2015

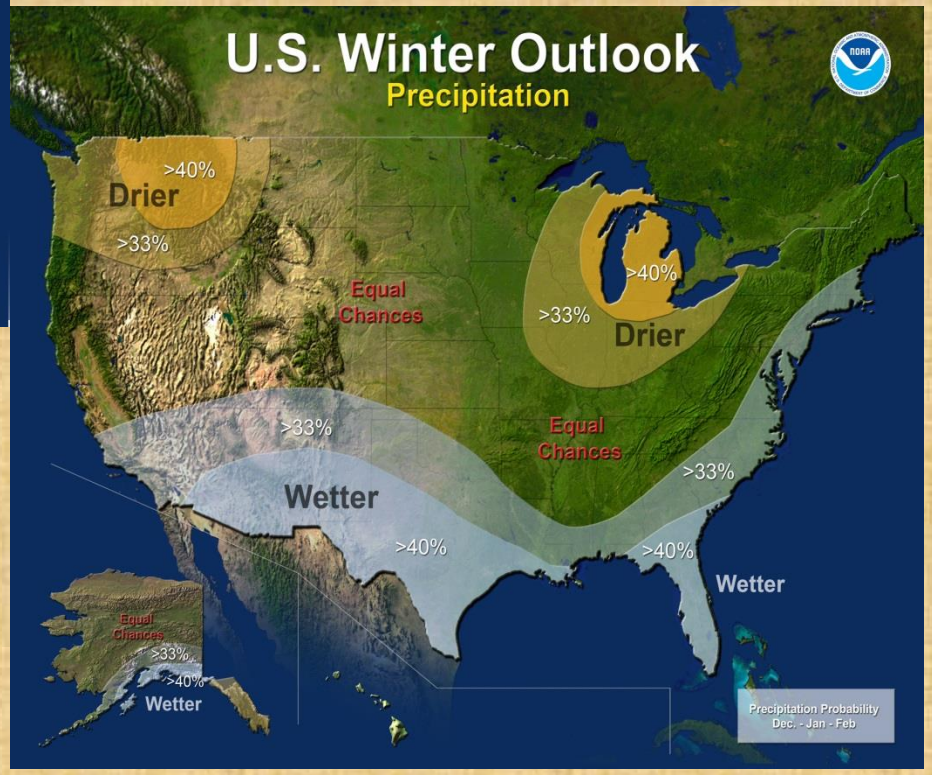
Temperature



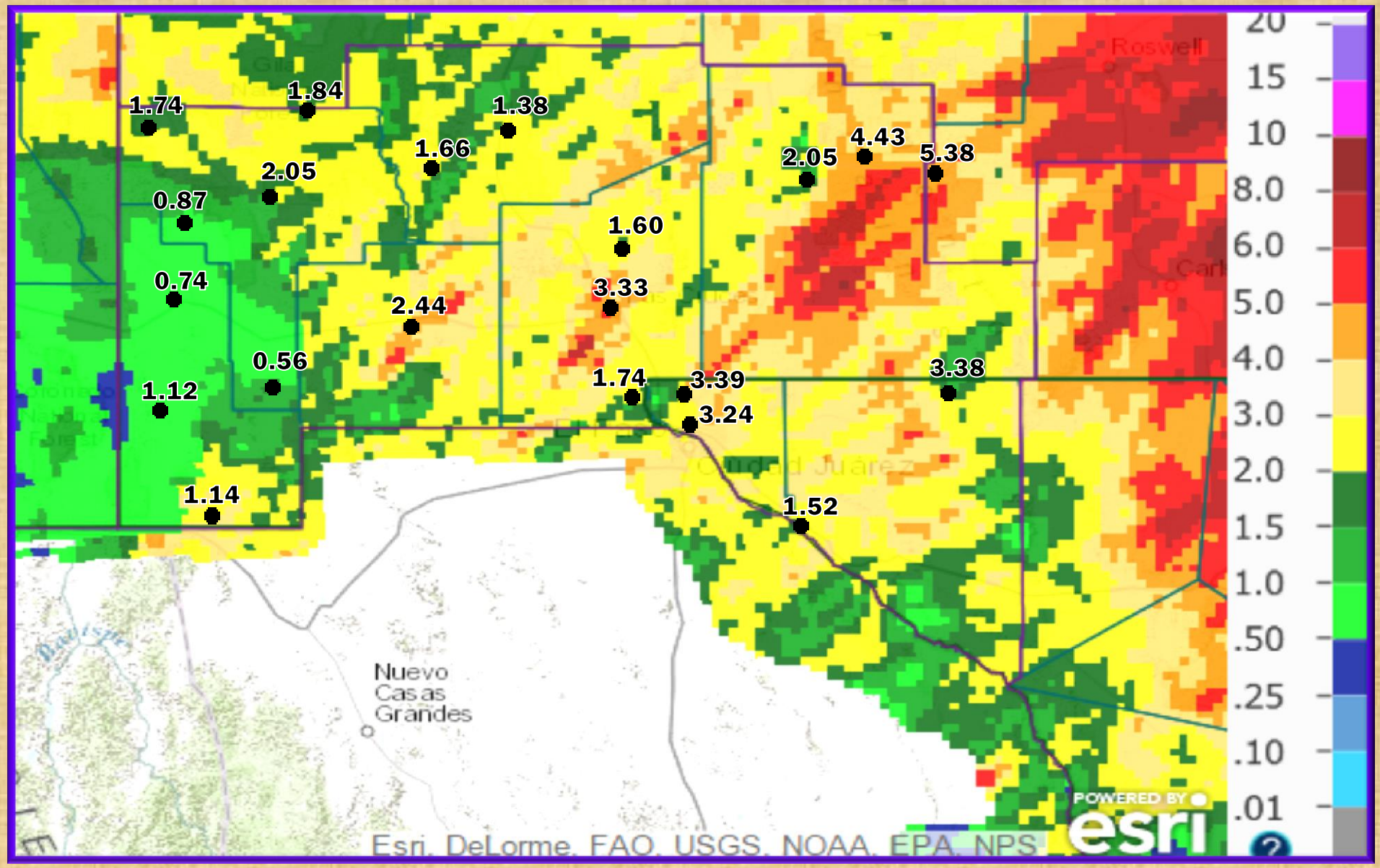
Precipitation



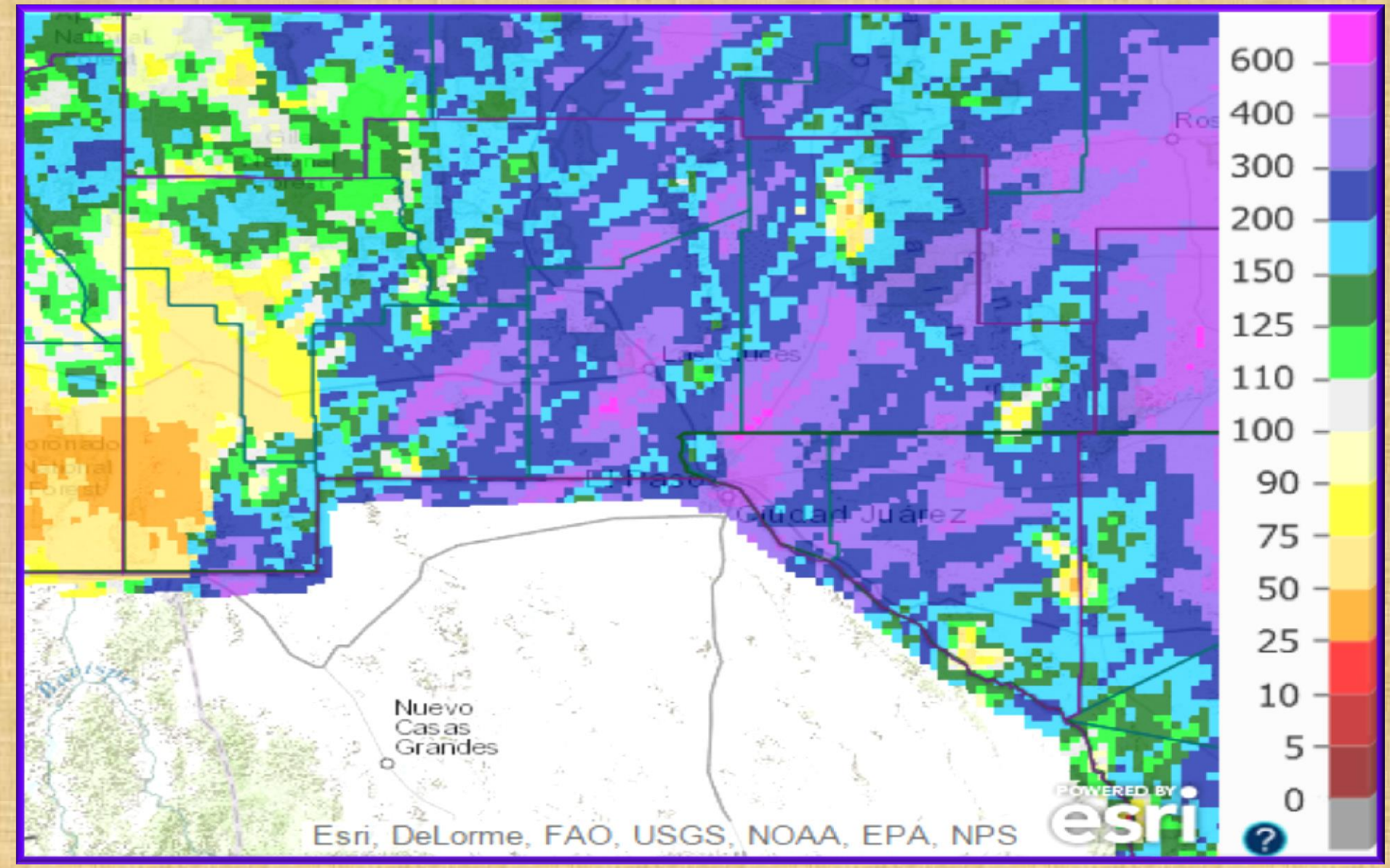
NOAA NWS official winter outlook



October 2015 radar rainfall estimate with surface rainfall reports

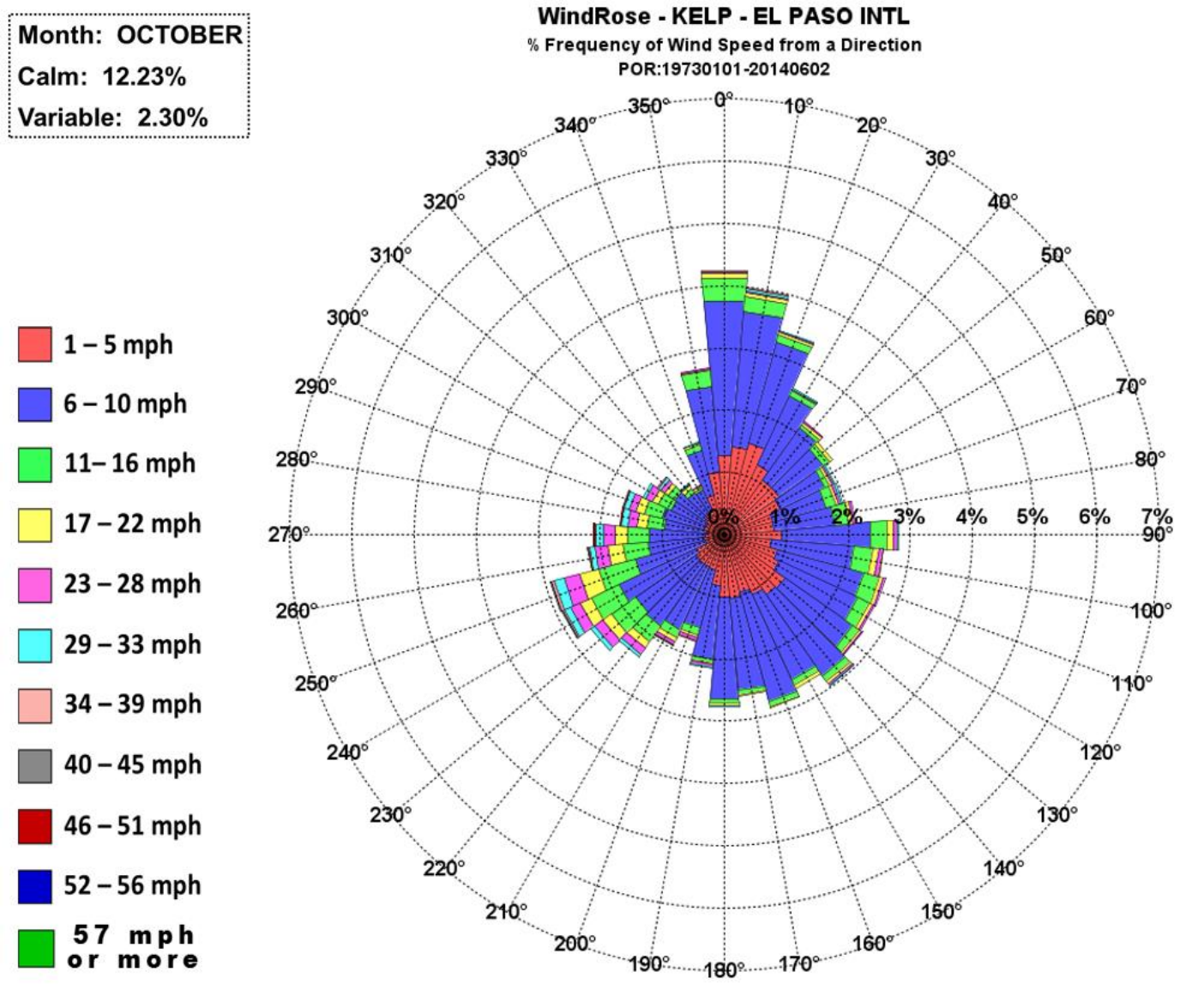


October 2015 Radar Rainfall Estimate
(Percent of normal)



Special Features

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



Selected weather reports October 2015

Date/Time	Location (County)	Event
10/3/2015 1227 PM	1 SE BERINO-DONA ANA	1.00 INCH HAIL
10/3/2015 140 PM	3 SW EAST MESA-DONA ANA	1.25 INCH HAIL
10/3/2015 205 PM	2 E LAS CRUCES-DONA ANA	1.75 INCH HAIL
10/3/2015 154 PM	1 NW LAS CRUCES-DONA ANA	1.00 INCH HAIL
10/3/2015 228 PM	3 SW EAST MESA-DONA ANA	2.00 INCH HAIL
10/3/2015 323 PM	LAS CRUCES-DONA ANA	1.75 INCH HAIL
10/5/2015 715 AM	SUNSPOT-OTERO	1.16 INCHES RAIN
10/5/2015 755 AM	3 E WEED-OTERO	1.03 INCHES RAIN
10/5/2015 700 AM	4 SE MAYHILL-OTERO	.97 INCHES RAIN
10/5/2015 811 AM	2 S CLOUDCROFT-OTERO	.94 INCHES RAIN
10/5/2015 655 AM	DELL CITY-HUDSPETH	.78 INCHES RAIN
10/5/2015 700 PM	21 NE FT HANCOCK-HUDSPETH	.60 INCHES RAIN
10/6/2015 329 PM	HORIZON CITY-EL PASO	1.00 INCH HAIL
10/6/2015 335 PM	SOCORRO-EL PASO	1.75 INCH HAIL
10/6/2015 336 PM	1 S SPARKS-EL PASO	1.00 INCH HAIL

Selected weather reports October 2015

Date/Time	Location (County)	Event
10/7/2015 133 PM	6 SW SUNSPOT-OTERO	1.50 INCH HAIL
10/7/2015 412 PM	7 NW SIERRA BLANCA-HUDSPETH	1.75 INCH HAIL
10/7/2015 1235 PM	4 S SEPAR-LUNA	TORNADO (LANDSPOUT)
10/19/2015 207 PM	PINOS ALTOS-GRANT	1.00 INCH HAIL
10/19/2015 214 PM	1 SE DEMING-LUNA	1.75 INCH HAIL
10/19/2015 327 PM	SACRAMENTO-OTERO	1.50 INCH HAIL
10/19/2015 453 PM	SUNLAND PARK-DONA ANA	1.00 INCH HAIL
10/19/2015 507 PM	4 SE CANUTILLO-EL PASO	1.00 INCH HAIL
10/19/2015 540 PM	1 NE CLIFF-GRANT	1.00 INCH HAIL
10/21/2015 209 AM	3 SE SEPAR-LUNA	1.50 INCH HAIL
10/21/2015 447 AM	9 NE DEMING-LUNA	1.00 INCH HAIL
10/21/2015 123 PM	2 SE LAS CRUCES-DONA ANA	1.50 INCH HAIL
10/21/2015 124 PM	3 E MESILLA-DONA ANA	1.75 INCH HAIL
10/21/2015 127 PM	2 S LAS CRUCES-DONA ANA	2.00 INCH HAIL
10/21/2015 309 AM	8 SE EL PASO	1.00 INCH HAIL

Selected weather reports October 2015

Date/Time	Location (County)	Event
10/21/2015 322 AM	TULAROSA-OTERO	1.00 INCH HAIL
10/21/2015 333 PM	DONA ANA-DONA ANA	FLASH FLOOD
10/21/2015 700 AM	LEASBURG DAM-DONA ANA	.80 INCHES RAIN
10/21/2015 700 AM	5 NW SANTA TERESA-DONA ANA	.64 INCHES RAIN
10/21/2015 800 AM	3 NE GILA-GRANT	1.72 INCHE RAIN
10/21/2015 700 AM	6 NE CLIFF-GRANT	1.34 INCHES RAIN
10/21/2015 1000 AM	7 NW MIMBRES-GRANT	.83 INCHES RAIN
10/21/2015 710 AM	4 N SILVER CITY-GRANT	.77 INCHES RAIN
10/21/2015 700 AM	4 SE DEMING-LUNA	1.12 INCHES RAIN
10/21/2015 800 AM	7 SE HACHITA-LUNA	.61 INCHES RAIN
10/21/2015 701 AM	1 NE MAYHILL-OTERO	1.60 INCHES RAIN
10/21/2015 814 AM	CLOUDCROFT-OTERO	1.15 INCHES RAIN
10/21/2015 700 AM	5 W HIGH ROLLS-OTERO	.67 INCHES RAIN
10/21/2015 700 AM	5 N EL PASO	1.37 INCHES RAIN

Selected weather reports October 2015

Date/Time	Location (County)	Event
10/30/2015 800 AM	2 SE LAS CRUCES-DONA ANA	1.30 INCHES RAIN
10/30/2015 700 AM	MESILLA PARK-DONA ANA	1.04 INCHES RAIN
10/30/2015 726 AM	DRIPPING SPRINGS-DONA ANA	.85 INCHES RAIN
10/30/2015 600 AM	17 E SAN LORENZO-GRANT	.90 INCHES RAIN
10/30/2015 759 AM	12 E REDROCK-GRANT	.47 INCHES RAIN
10/30/2015 700 AM	19 NE DEMING-LUNA	.85 INCHES RAIN
10/30/2015 800 AM	COLUMBUS-LUNA	.65 INCHES RAIN
10/30/2015 800 AM	SUNSPOT-OTERO	.99 INCHES RAIN
10/30/2015 800 AM	TULAROSA-OTERO	.83 INCHES RAIN
10/30/2015 700 AM	4 SE MAYHILL-OTERO	.78 INCHES RAIN
10/30/2015 800 AM	7 NW EL PASO	1.55 INCHES RAIN

KEPZ: Keeping a surveillance for hazardous weather 24/7 !