

Weekly Weather Briefing

“Tuesday Soaker”

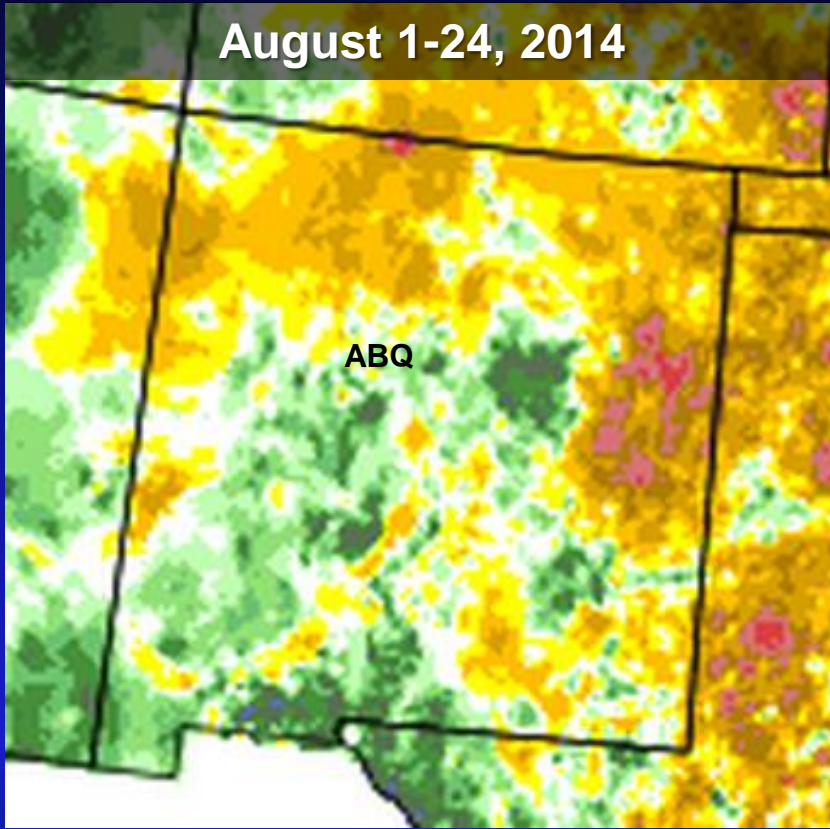
NWS Albuquerque
August 25, 2014



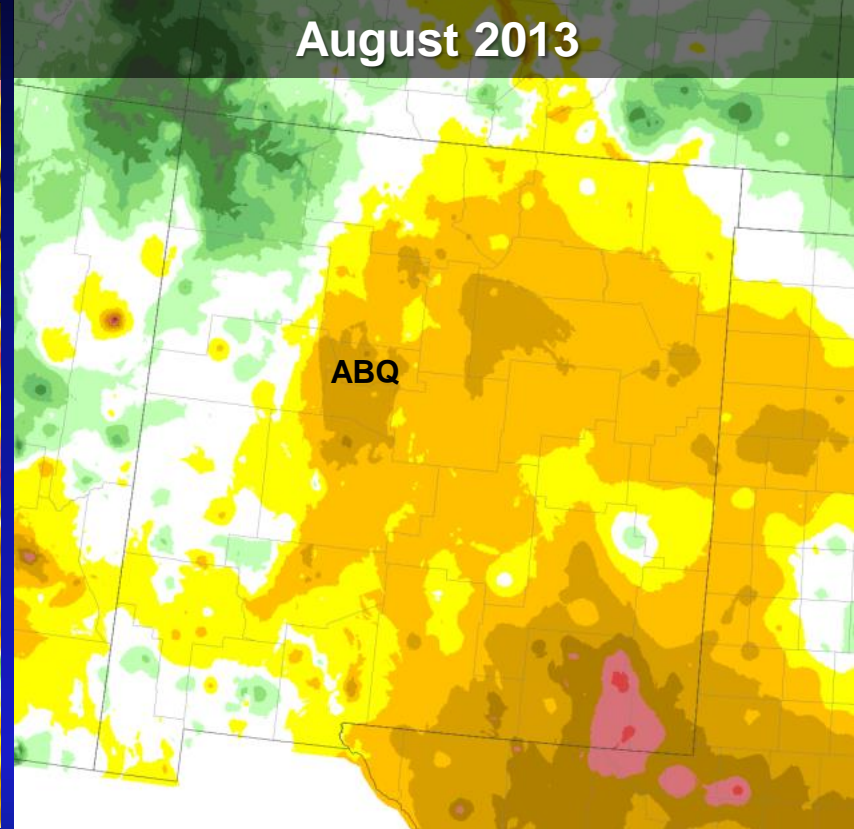
August 2014 vs. 2013 Precipitation Percent of Average

Weekly Weather Briefing

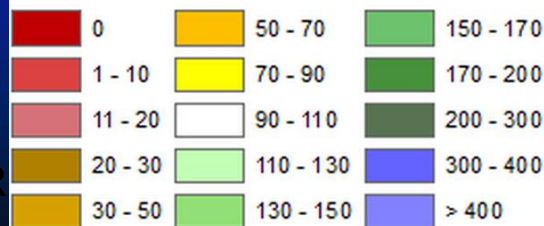
August 1-24, 2014



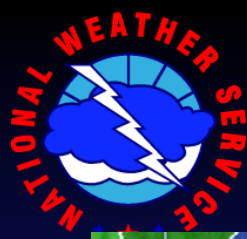
August 2013



% of Average Precipitation

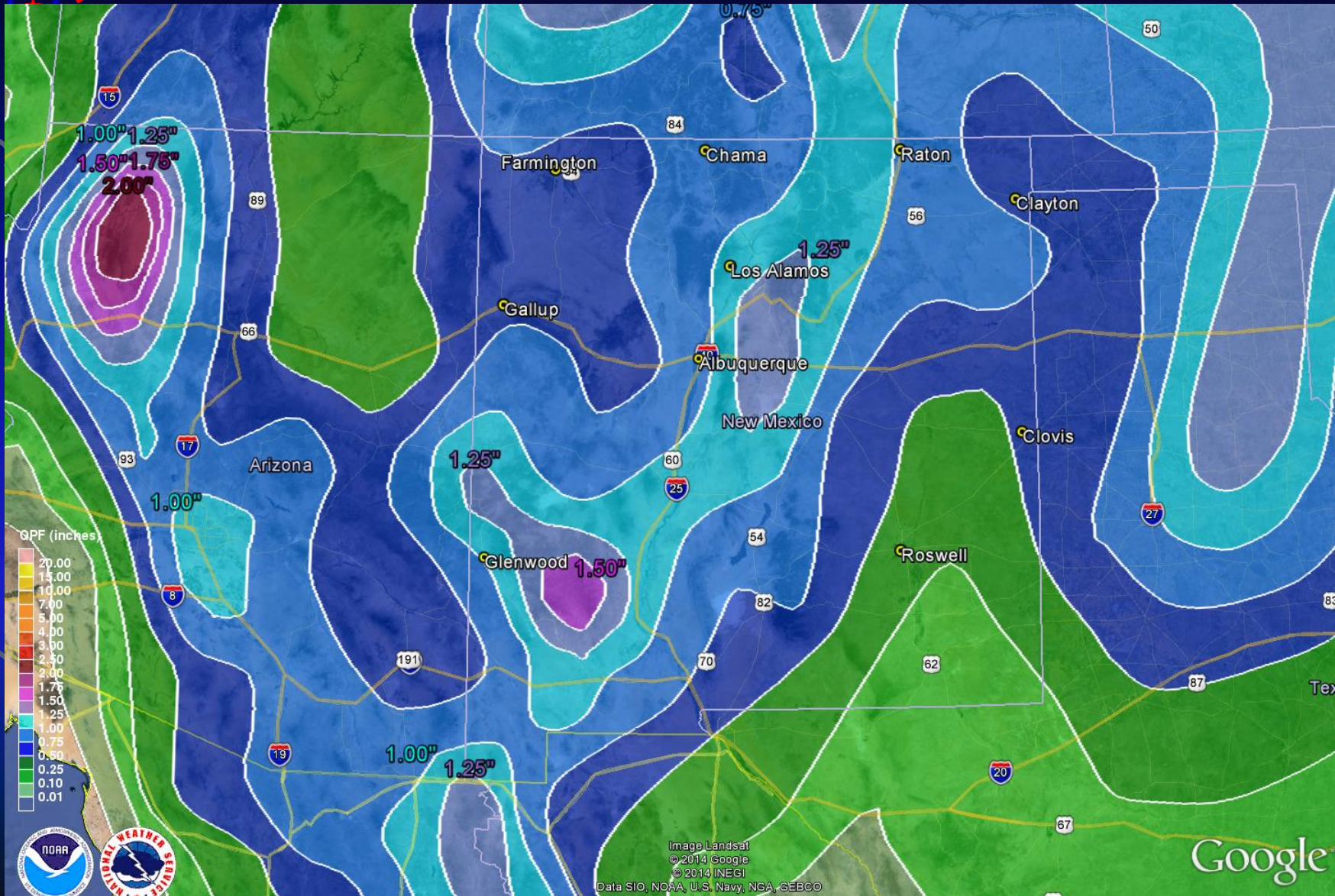


Preliminary PR



Projected Rainfall Totals This Week!

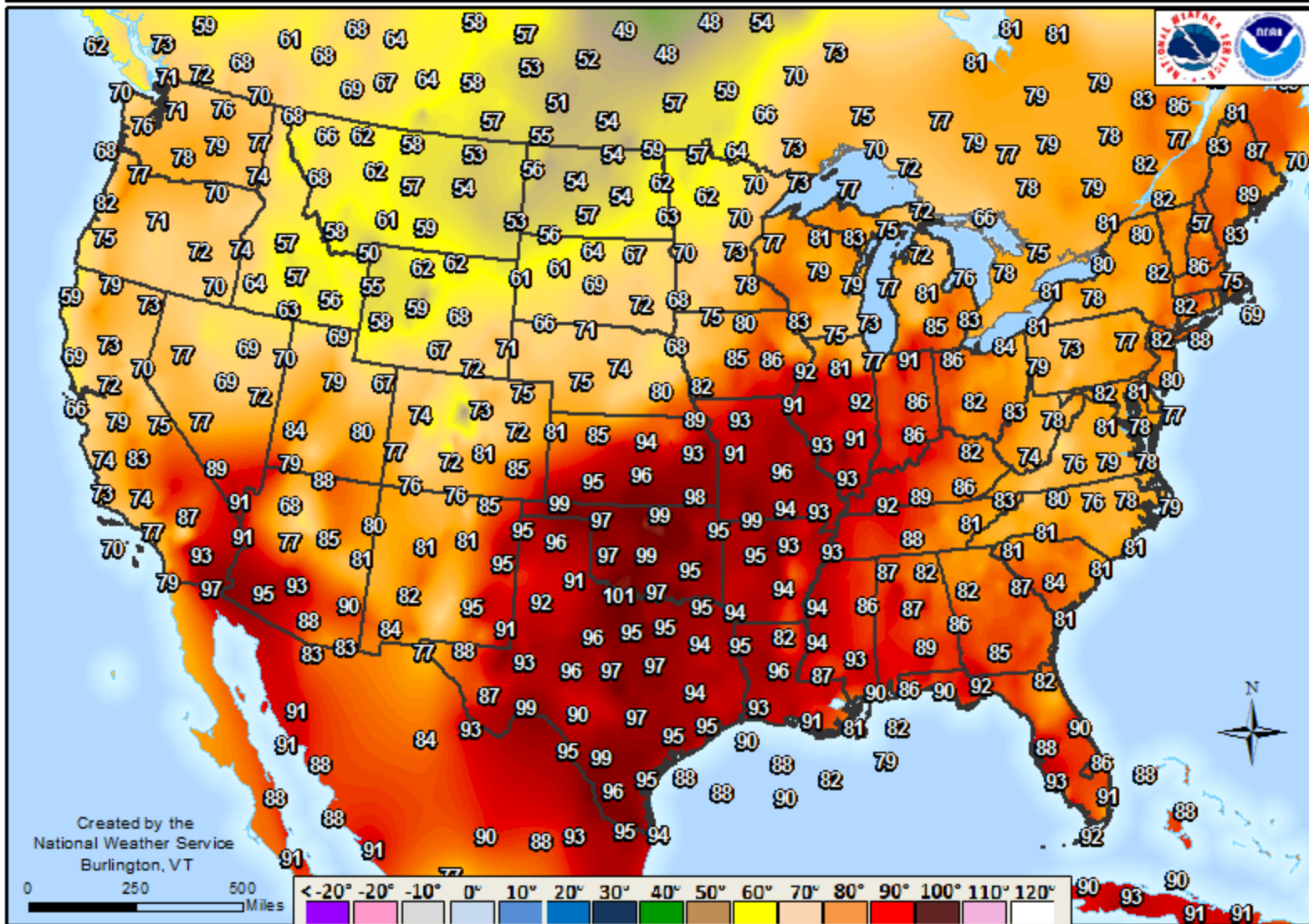
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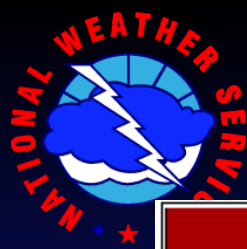


Most Recent Temperatures

Temperatures As Of: 8/25/2014 3 PM EDT



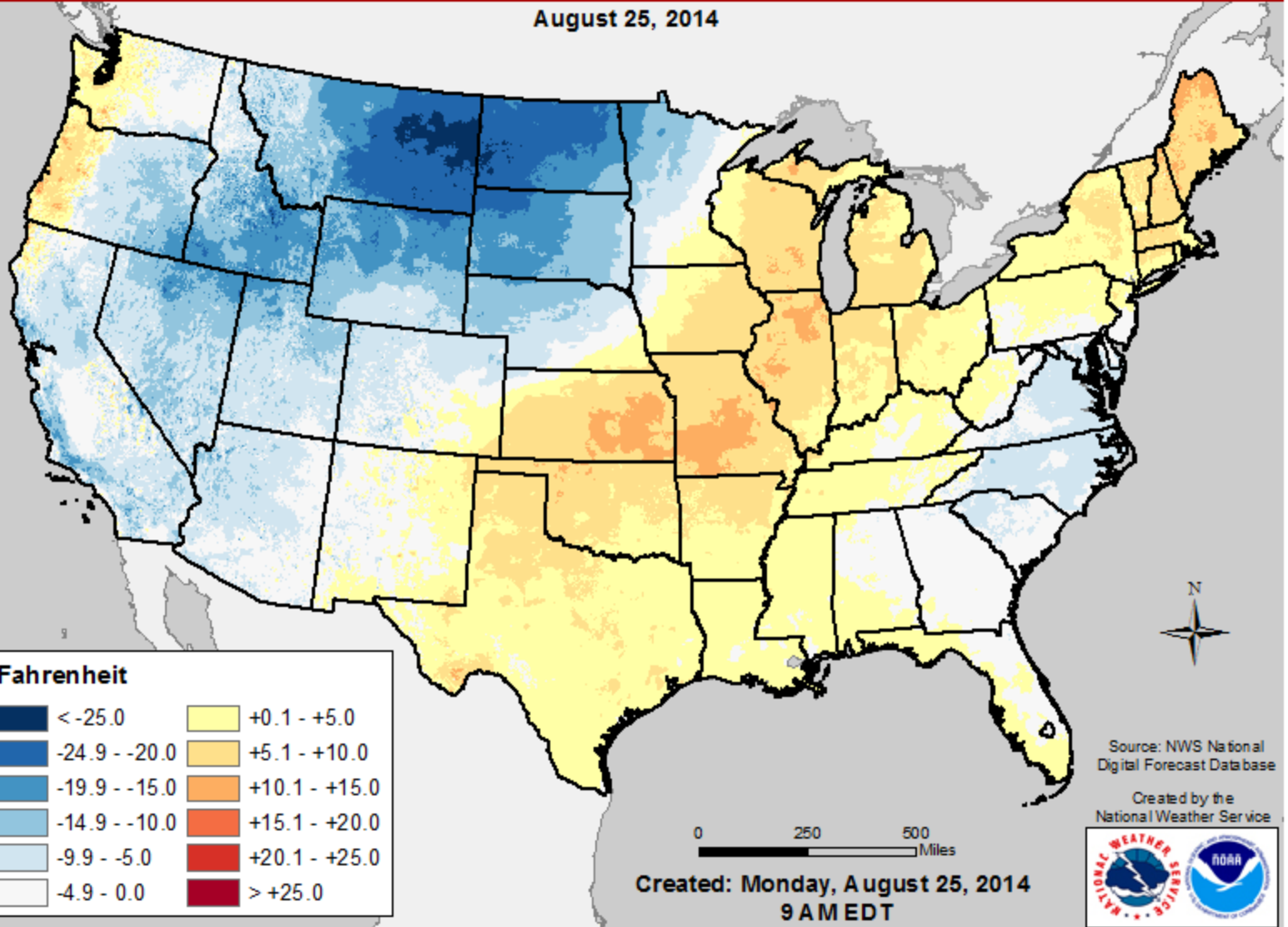
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Today's Max Temp Departure from Normal

National High Temperature Departure From Normal Forecast

August 25, 2014



Fahrenheit

	< -25.0		+0.1 - +5.0
	-24.9 - -20.0		+5.1 - +10.0
	-19.9 - -15.0		+10.1 - +15.0
	-14.9 - -10.0		+15.1 - +20.0
	-9.9 - -5.0		+20.1 - +25.0
	-4.9 - 0.0		> +25.0

0 250 500 Miles

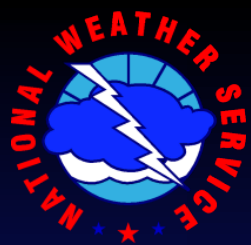
Created: Monday, August 25, 2014
9 AM EDT

Source: NWS National Digital Forecast Database

Created by the National Weather Service



Weekly Weather Briefing



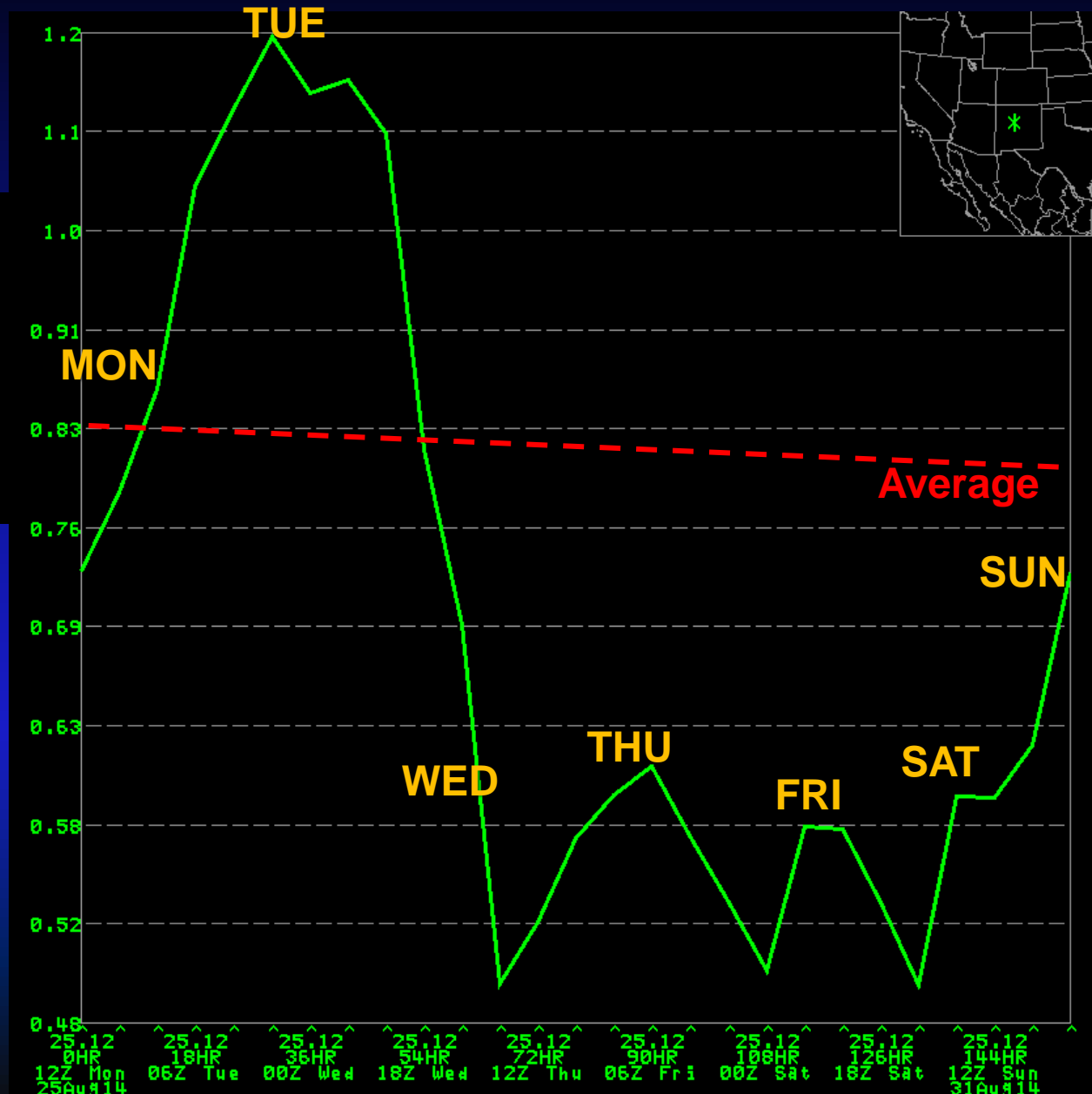
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Forecast Details



Precipitable Water (Moisture) Trends

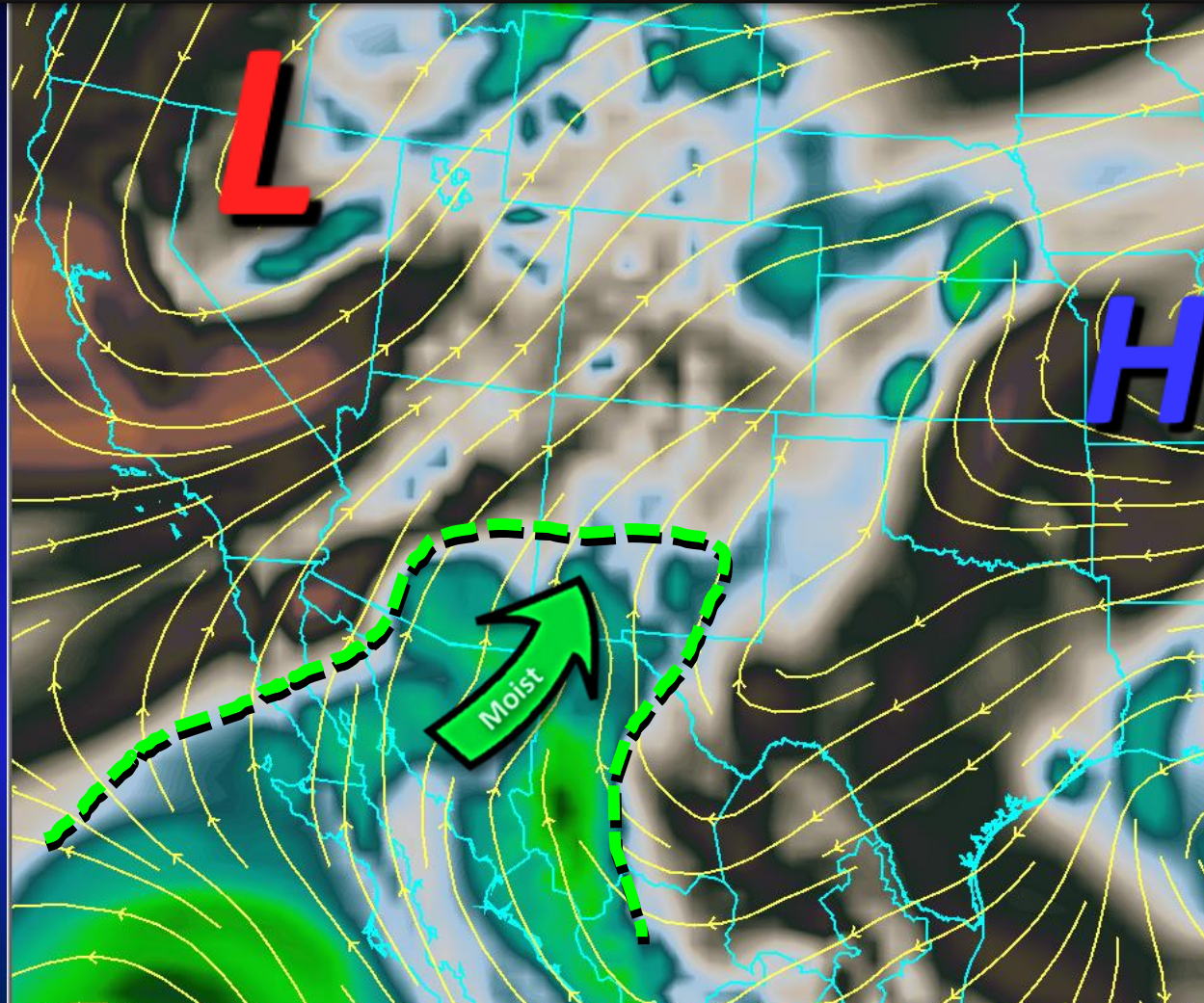
Precipitable water, measured in inches, is the depth of water in a column of the atmosphere if all the water in that column were precipitated as rain.





Upper Level Forecast Chart (Image is Moisture)

Tonight

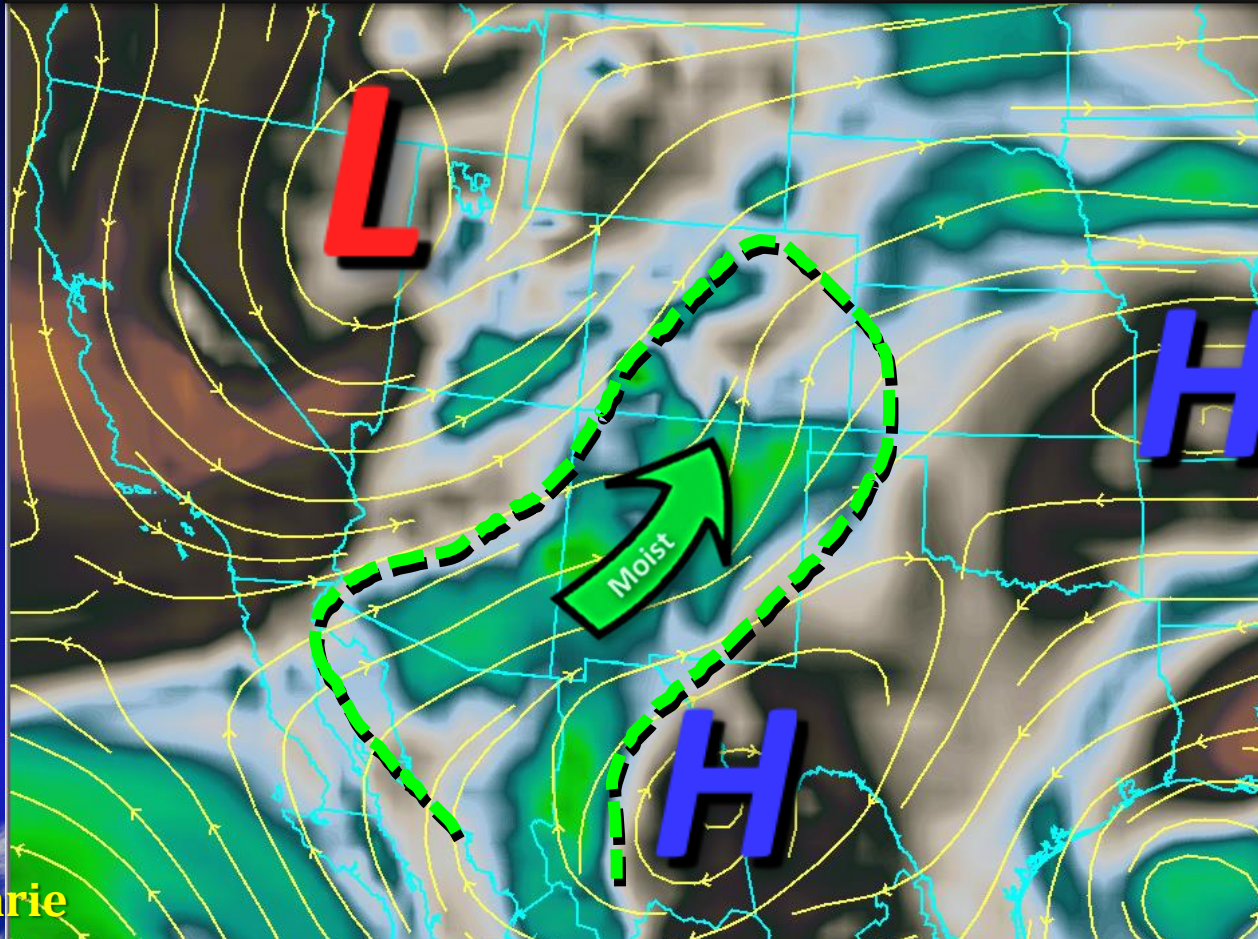


Tonight: Moistening southerly flow to strengthen with deep moisture moving into southern areas of the state.



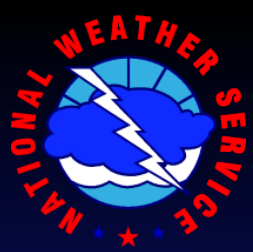
Upper Level Forecast Chart (Image is Moisture)

Tuesday



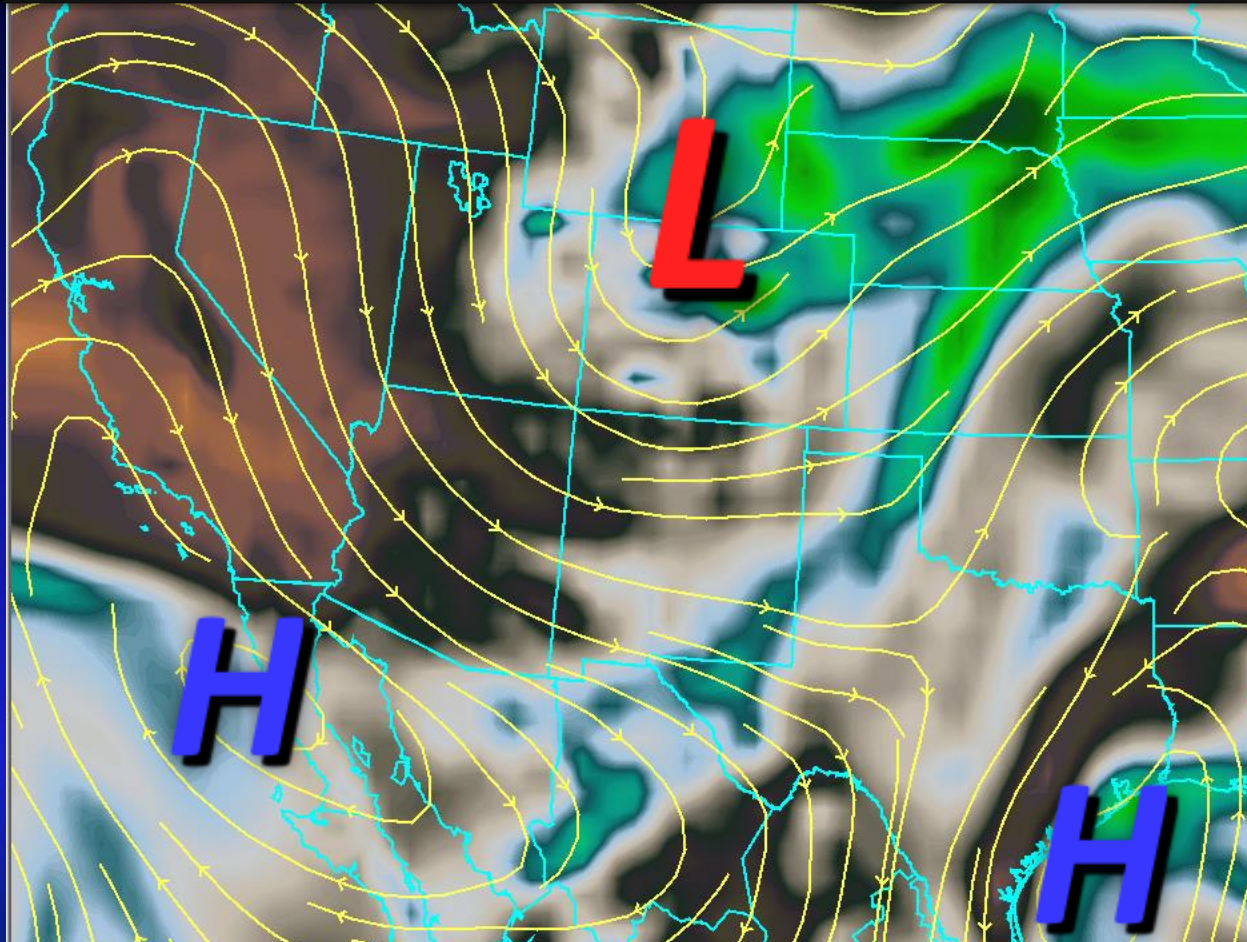
Marie

Tuesday: Slow-moving disturbance aloft in the very moist southerly flow to result in widespread shower and thunderstorm activity especially western and northern areas.

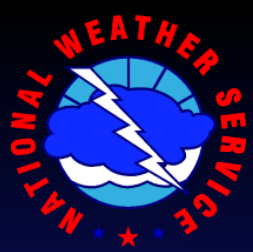


Upper Level Forecast Chart (Image is Moisture)

Wednesday

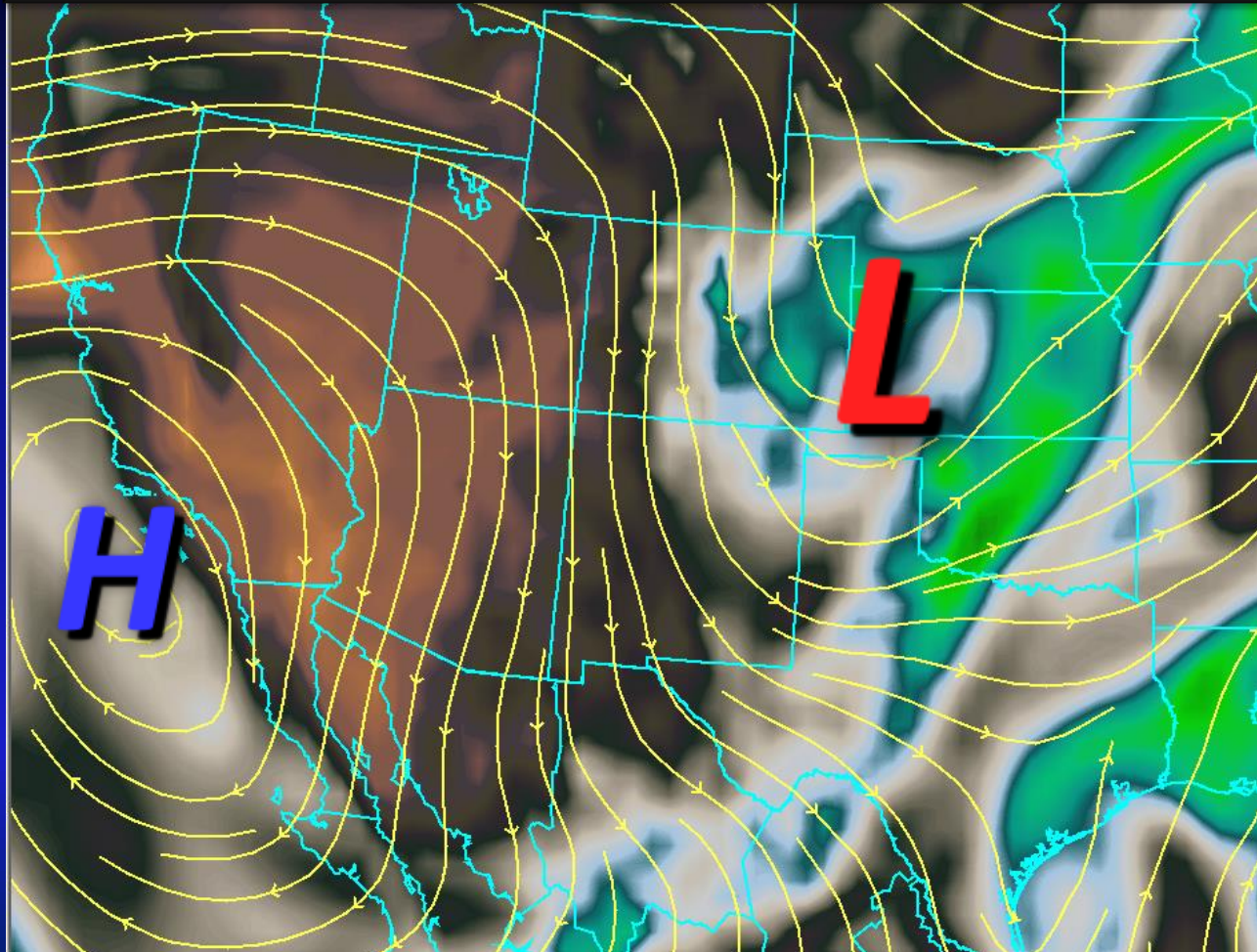


Wednesday: Quick transition to a drier westerly flow pattern, but lingering moisture good for isolated to scattered showers and thunderstorms favoring the mountains and east.

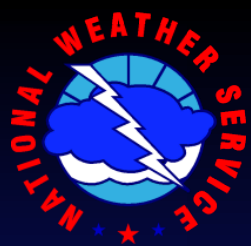


Upper Level Forecast Chart (Image is Moisture)

Thursday

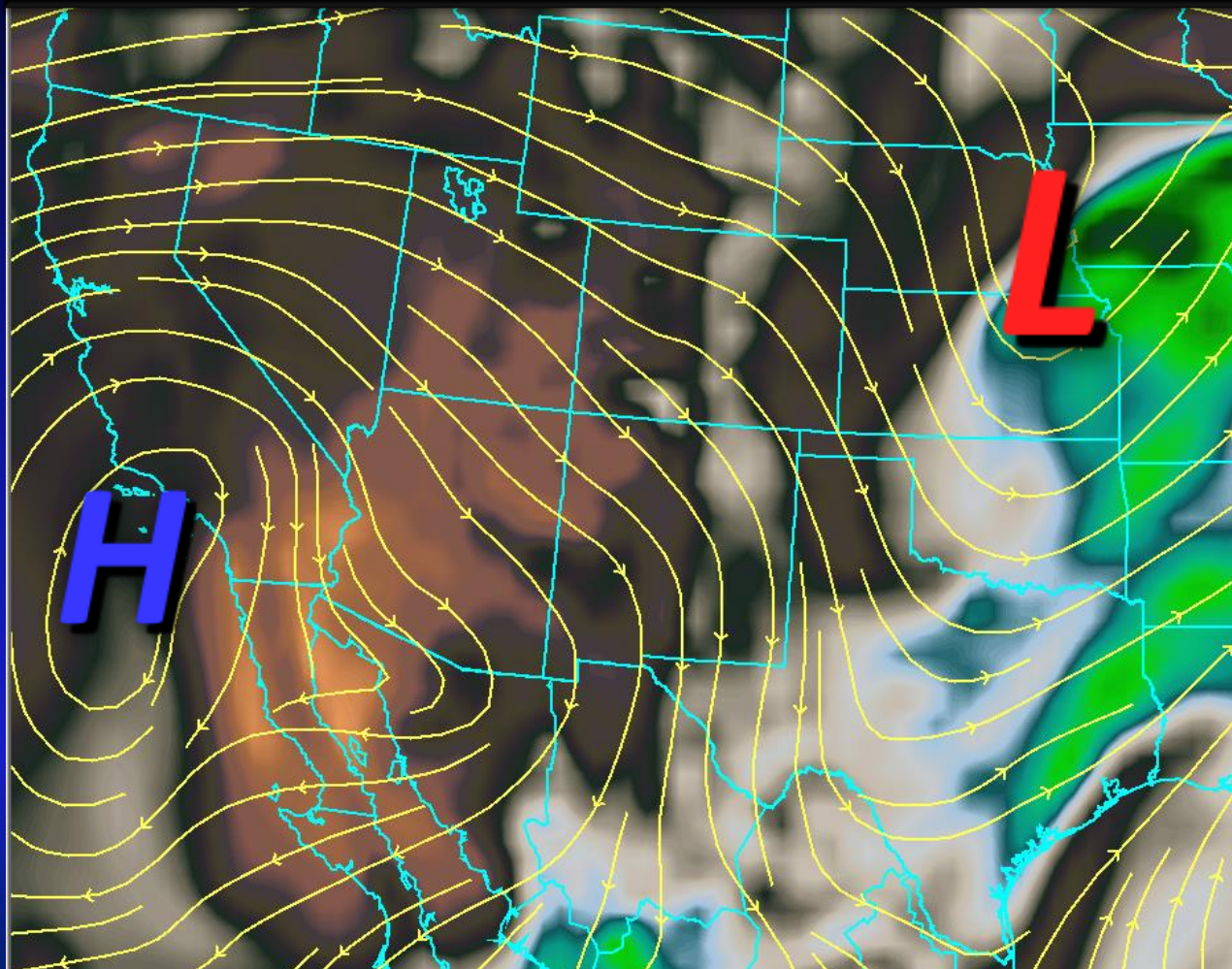


Thursday: High pressure to our west, low pressure to our east will result in a northerly steering flow. Best storm chances central mountain chain and NE.

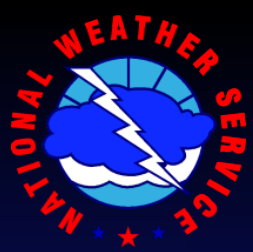


Upper Level Forecast Chart (Image is Moisture)

Friday



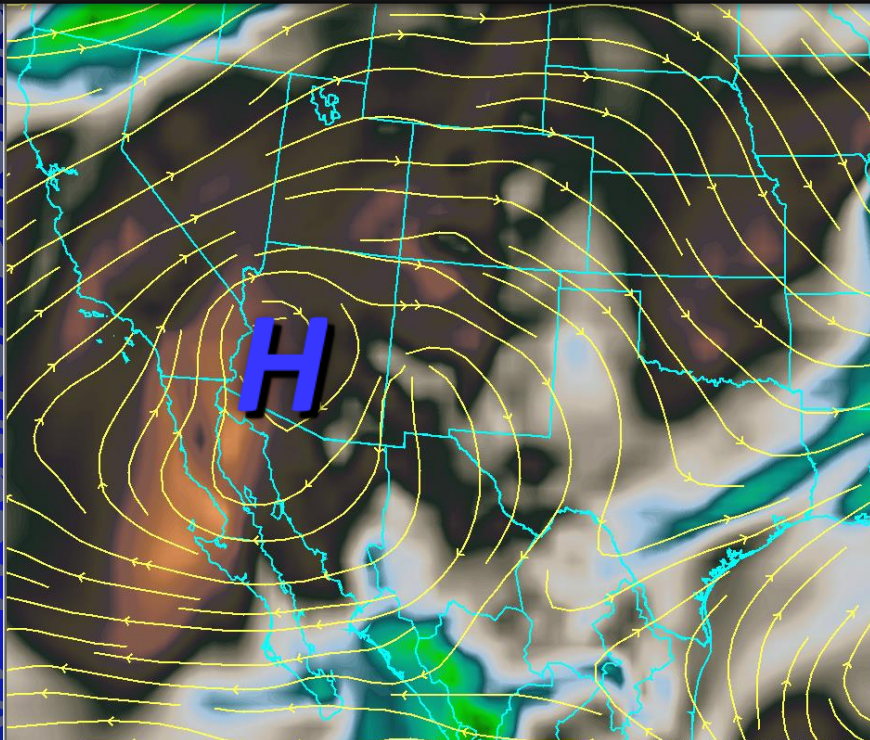
Friday: Similar pattern to Thursday but overall drying indicated. Isolated storm activity will favor the central mountain chain eastward.



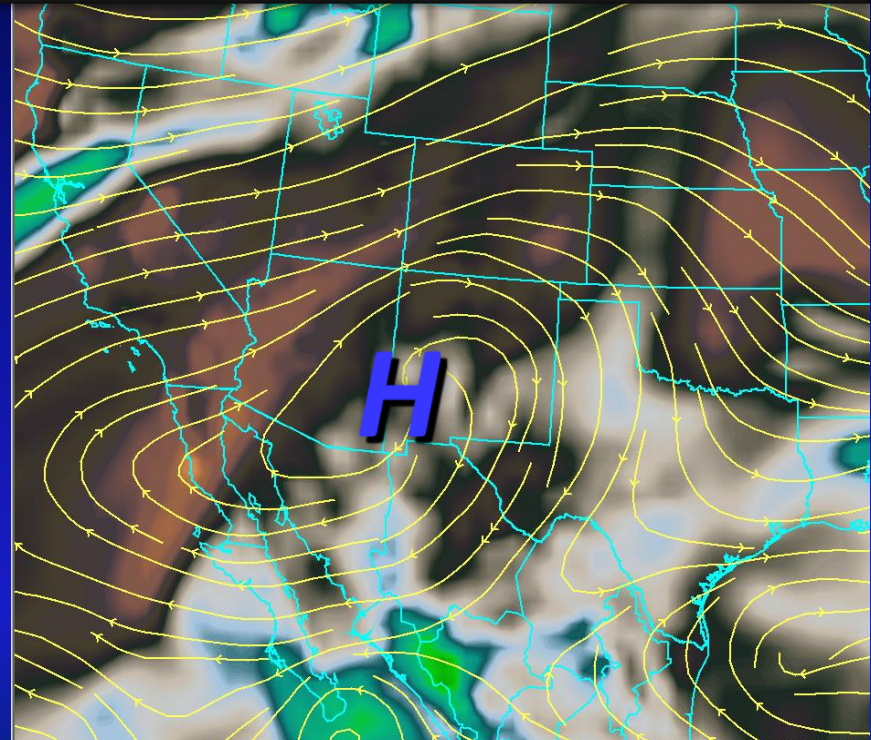
Upper Level Forecast Chart (Image is Moisture)

Holiday Weekend Outlook

Saturday



Sunday

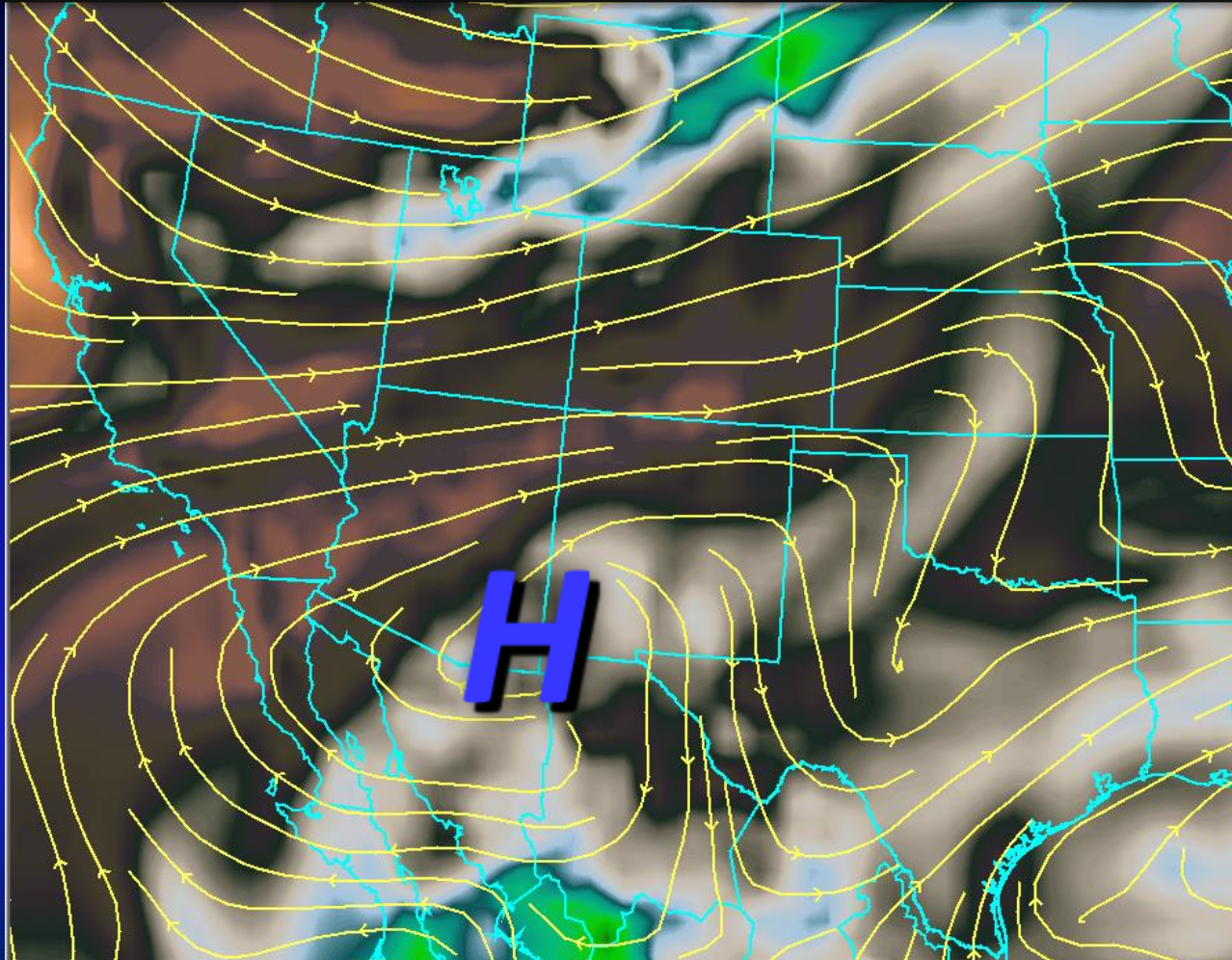


Weekend: High pressure aloft recenters over or just west of southwest NM. A low grade monsoon forecast overall, with better moisture working back into SW and SC areas by Sunday. Overall, a pretty quiet pattern expected.



Upper Level Forecast Chart (Image is Moisture)

Labor Day Outlook



Labor Day: Predominately dry signal for central and northern NM. Perhaps an isolated afternoon or evening shower or storm south favoring the mountains.

Burn Scar

Thunderstorm Threat Matrix

<u>Burn Scar</u>	Today	Tuesday	Wednesday	Thursday	Friday
Assayii Lake	Slight	High	Slight	Slight	None
Diego	Moderate	High	Moderate	Slight	None
Jaroso	Moderate	High	Moderate	Slight	Slight
Las Conchas	Moderate	High	Moderate	Slight	Slight
Little Bear	Moderate	High	High	Slight	Slight
Pacheco	Moderate	High	Moderate	Slight	Slight
Thompson Ridge	Moderate	High	Moderate	Slight	Slight
Tres Lagunas	Moderate	High	Moderate	Slight	Slight
White	Moderate	High	High	Slight	Slight
Whitewater-Baldy	High	High	Moderate	Slight	Slight

Table indicates probability for thunderstorms. This product is for planning purposes only. Refer to the latest bulletins from the NWS concerning immediate threats for flash flooding.

None = 0%

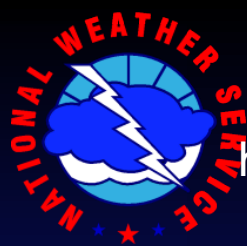
Slight = 10-30%

Moderate = 40-60%

High = 60% +



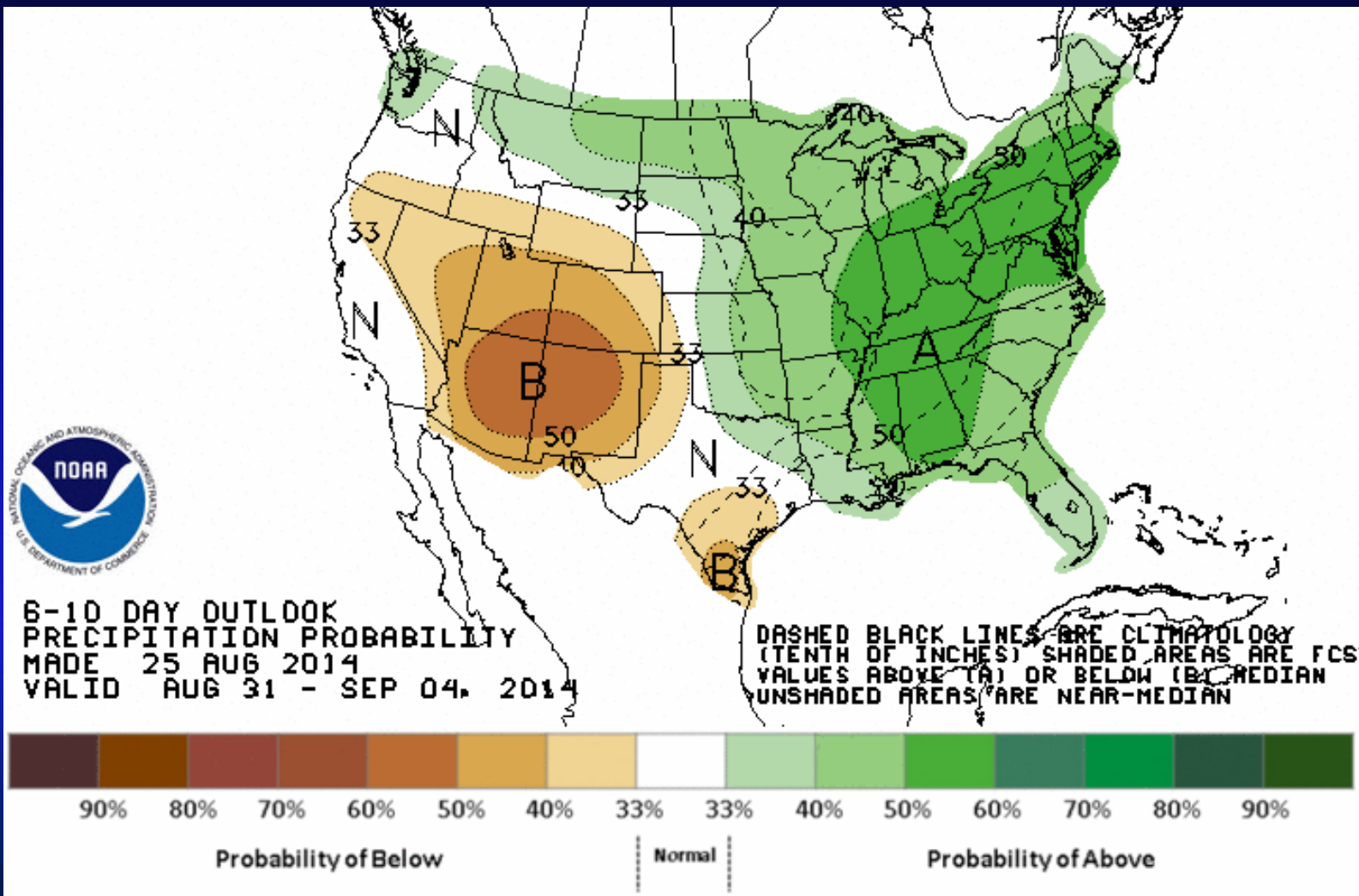
414 AM MDT
 Mon Aug 25 2014
 National Weather Service
 Albuquerque, NM



6-10 Day Precip Outlook: Aug 31- Sep 4

<http://www.cpc.ncep.noaa.gov/products/predictions/610day/610prcp.new.gif>

Weekly Weather Briefing









Week at Glance

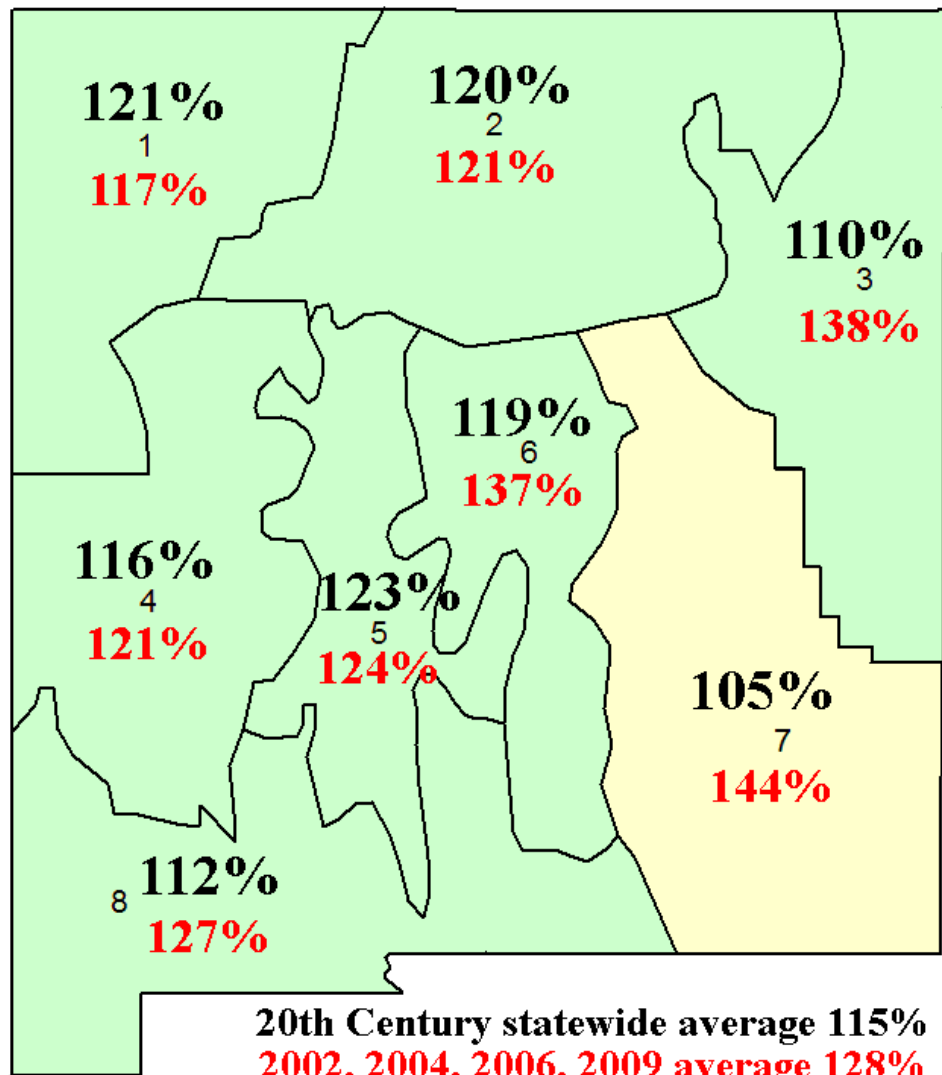
-  **Tonight** (T-storms, locally heavy rain)
-  **Tuesday** (Elevated FF Threat)
-  **Wednesday** (Isold-Sct T-storms)
-  **Thursday** (Isold-Sct T-storms)
-  **Friday** (Isold-Sct T-storms)
-  **Weekend** (Isold T-storms, focus south)

SYNOPSIS: Monsoon moisture will surge northeastward through Tuesday night ahead of an upper level low pressure system that will slowly cross the central Rockies from the west. The main wave of precipitation is expected Tuesday and Tuesday night. Drier air will engulf southern and western areas again starting Thursday, but showers and thunderstorms should remain active from the northern mountains eastward as the upper level low begins to shift eastward onto the plains and a back door cool front enters the northeast quarter of the state. A comparatively quiet holiday weekend is expected with just isolated activity mainly south.

Hazards & Impacts

-  None
-  Minor
-  Significant
-  Major

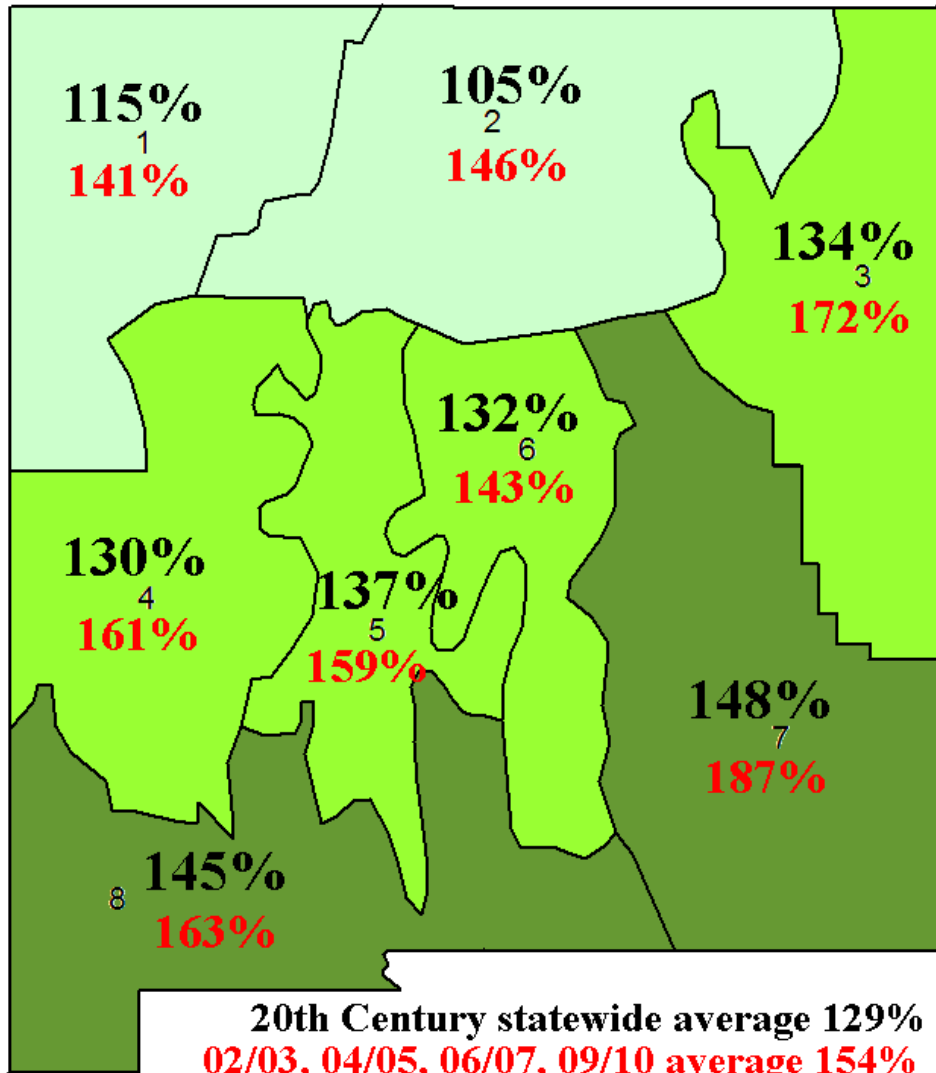
Autumn Precipitation - September through November - (percent of normal) during 16 20th Century El Nino events (1914 - 1998)



Autumn Precipitation (percent of normal) during the El Niño events of 2002, 2004, 2006, and 2009.

Fall precipitation during **El Niño** events had been generally higher in western NM in the 20th century, but that pattern has so far reversed for the first four **El Niño** events since 2000. (Eastern NM wetter than western NM)

Winter Precipitation - December through February - (percent of normal) during 16 20th Century El Nino events (1914 - 1998)



Winter Precipitation (percent of normal) during the El Niño events of 2002/03, 04/05, 06/07, and 09/10.

Winter precipitation during **El Niño** events had been generally higher in southern and eastern NM in the 20th century, and that pattern has so far been *further enhanced* for the first four **El Niño** events since 2000. (Southeast NM wetter than northwest NM)

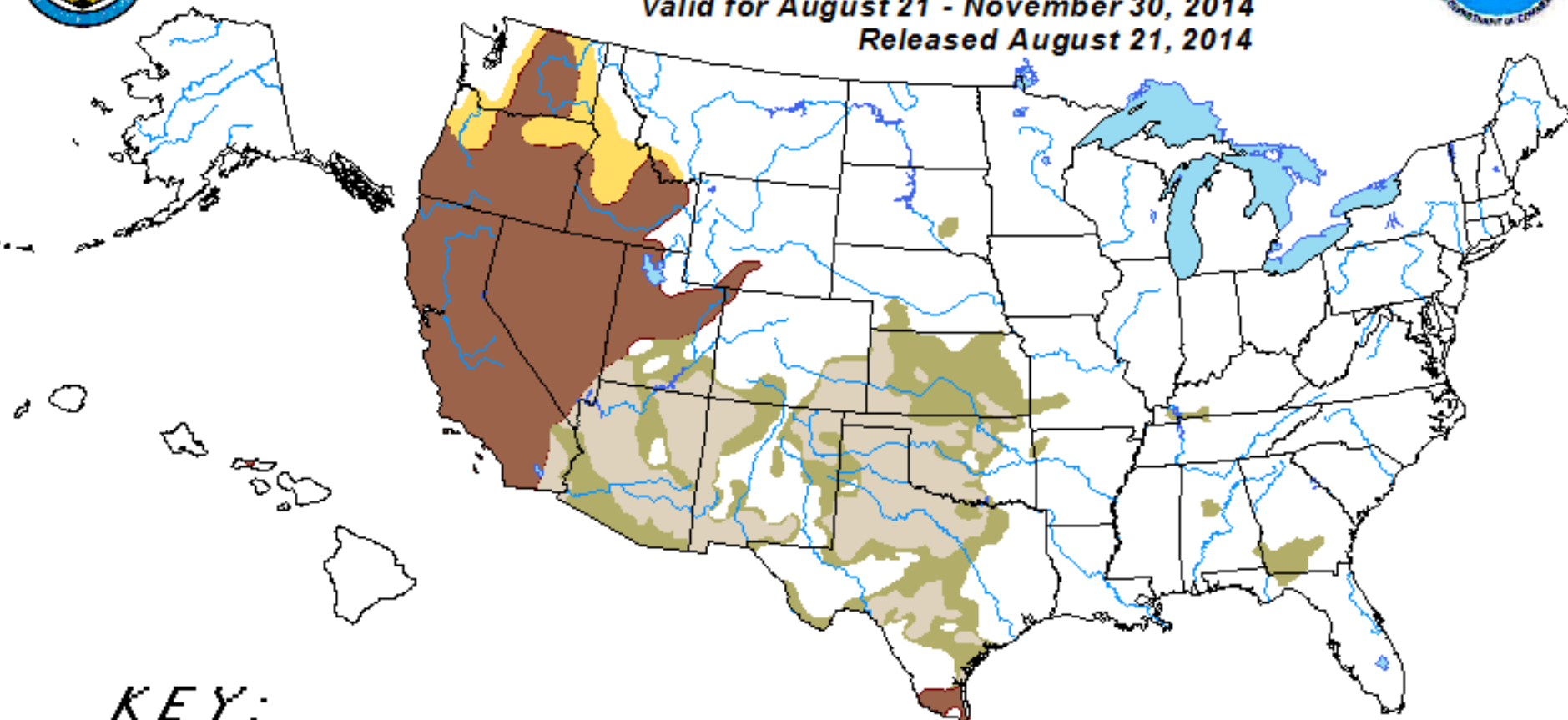


U.S. Seasonal Drought Outlook





Drought Tendency During the Valid Period

Valid for August 21 - November 30, 2014

Released August 21, 2014



KEY:

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

Author: David Miskus, Climate Prediction Center, NOAA

http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.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.

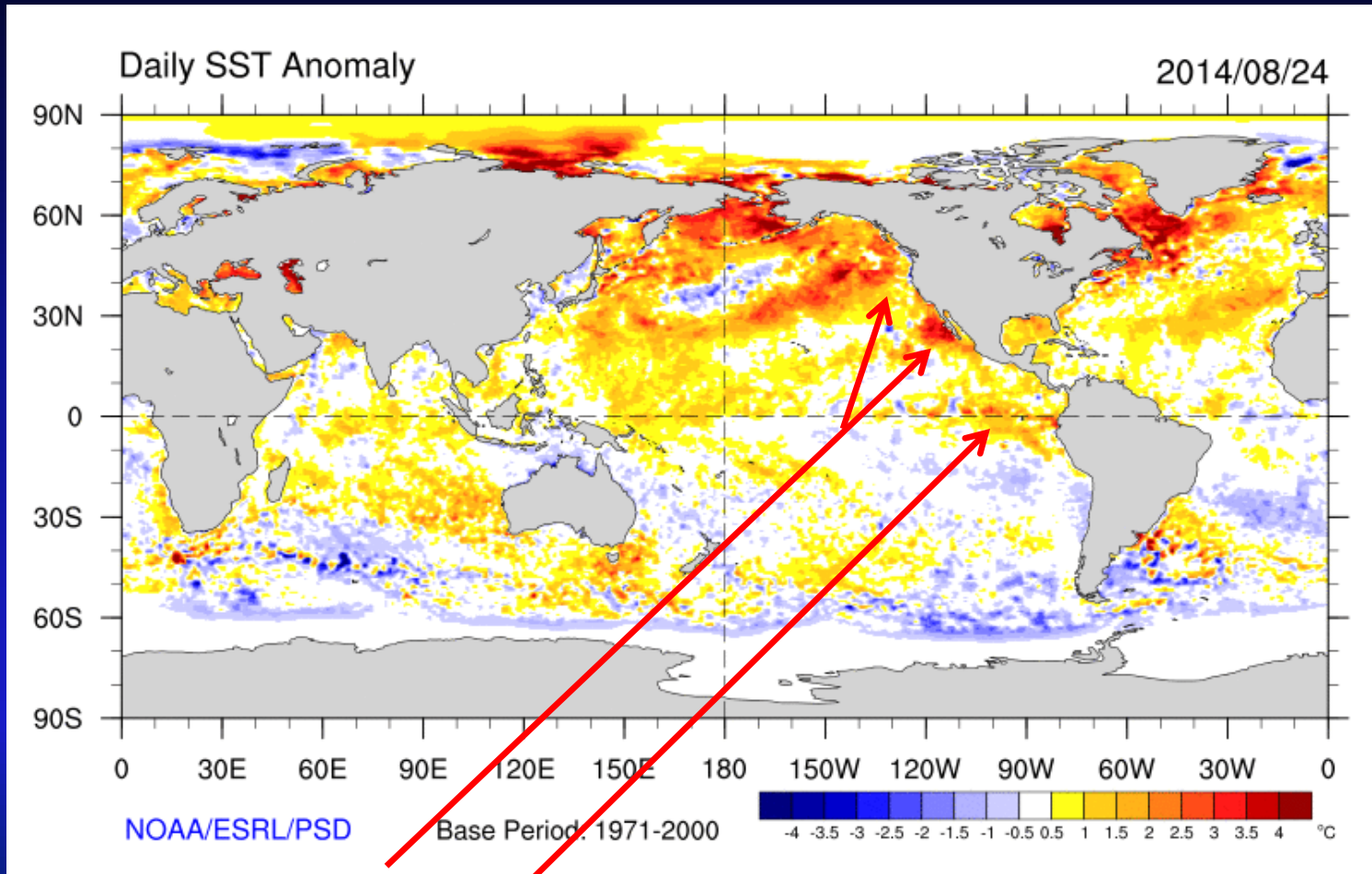
NOTE: The tan area areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain.

The Green areas imply drought removal by the end of the period (D0 or none)





Daily Global SST Anomalies as of 8/24/14

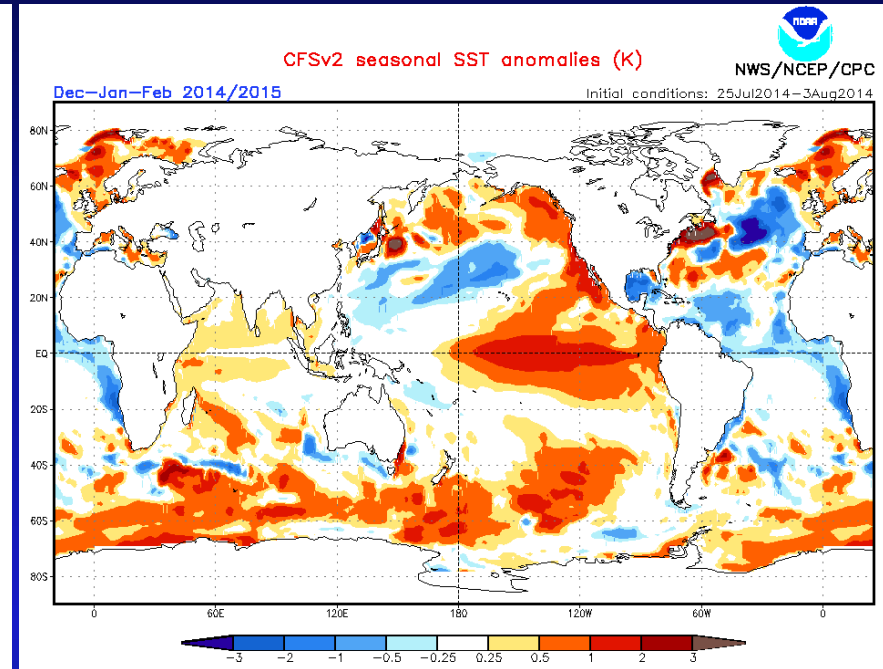
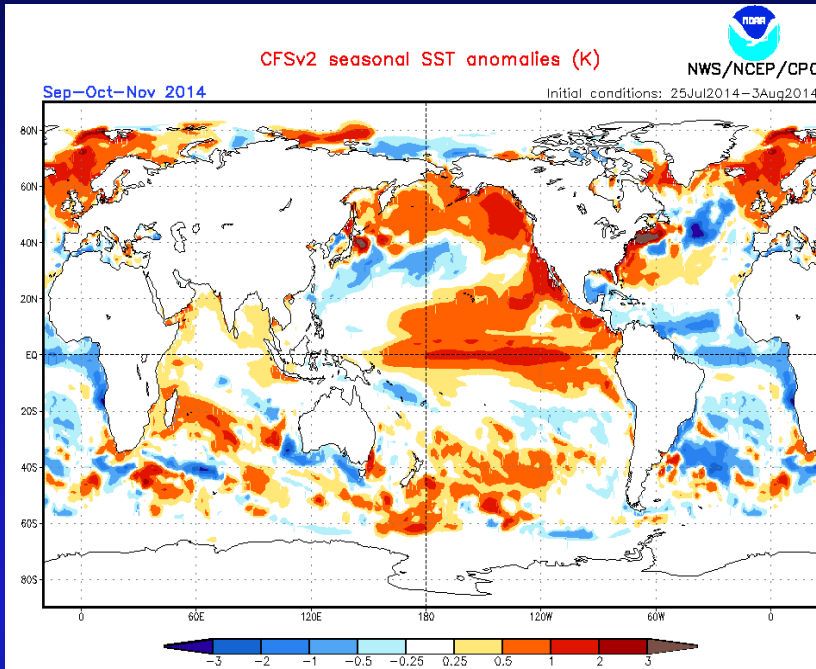


Note the lack of a strong El Niño signature along eastern Equatorial Pacific. A positive Pacific Decadal Oscillation (PDO) continues, however, which often results in above average precipitation for central and northern NM for Autumn and Winter.



Sept 2014 thru Feb 2015 SST Forecast from Climate Prediction Center (CPC)

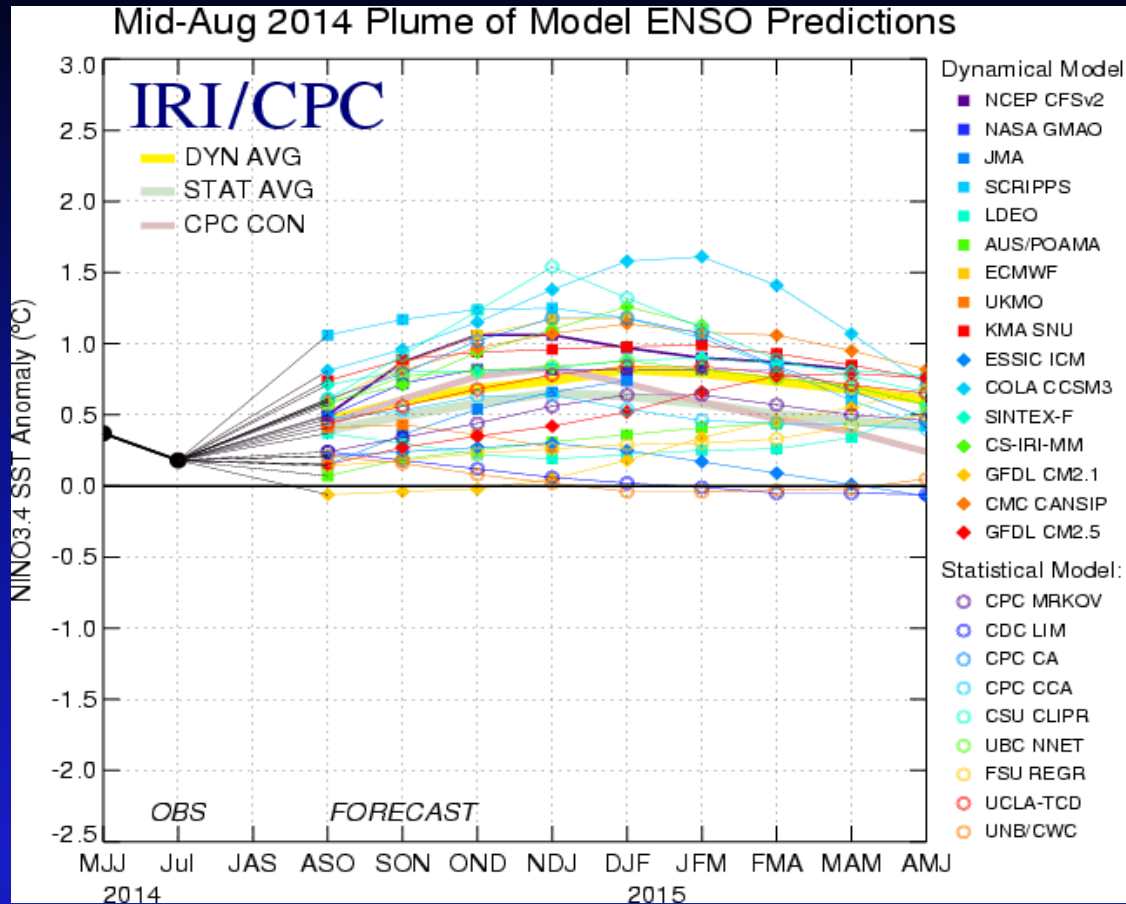
Weekly Weather Briefing



CPC's model continues to indicate a weak to moderate El Niño during Fall and Winter 2014-2015.



IRI/CPC Pacific Niño 3.4 SST Model Outlook



Update as of August 19, 2014. Vast majority of models favor El Niño (greater than or equal to $+0.5^{\circ}\text{C}$) to develop in the next several months and persist through Northern Hemisphere winter 2014-15.



We Need YOU...

WRN Ambassadors are change agents and leaders of their communities. You will inspire others to be better informed and prepared – helping to minimize or even avoid the impacts of natural disasters.

The Ambassador's badge signifies your commitment as a trusted partner in building community resilience in the face of increasing vulnerability to extreme weather and water events.

20 NEW WRN Ambassadors!



- Any organization across all levels of government, businesses large and small, non-profit and non-governmental organizations, and academia can become WRN Ambassadors. A broadcast meteorologist who advocates weather preparedness on-air
- Contact Kerry Jones directly for application info.



As always...

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- ▶ NMroads.com