

# **New Mexico**

**Meteorological**

**Drought Status**

**and**

**Climate/Weather Outlook**

**Water and Natural Resources Committee &  
Drought Subcommittee July 24, 2013**

**National Weather Service Albuquerque, NM**

**<http://weather.gov/abq>**



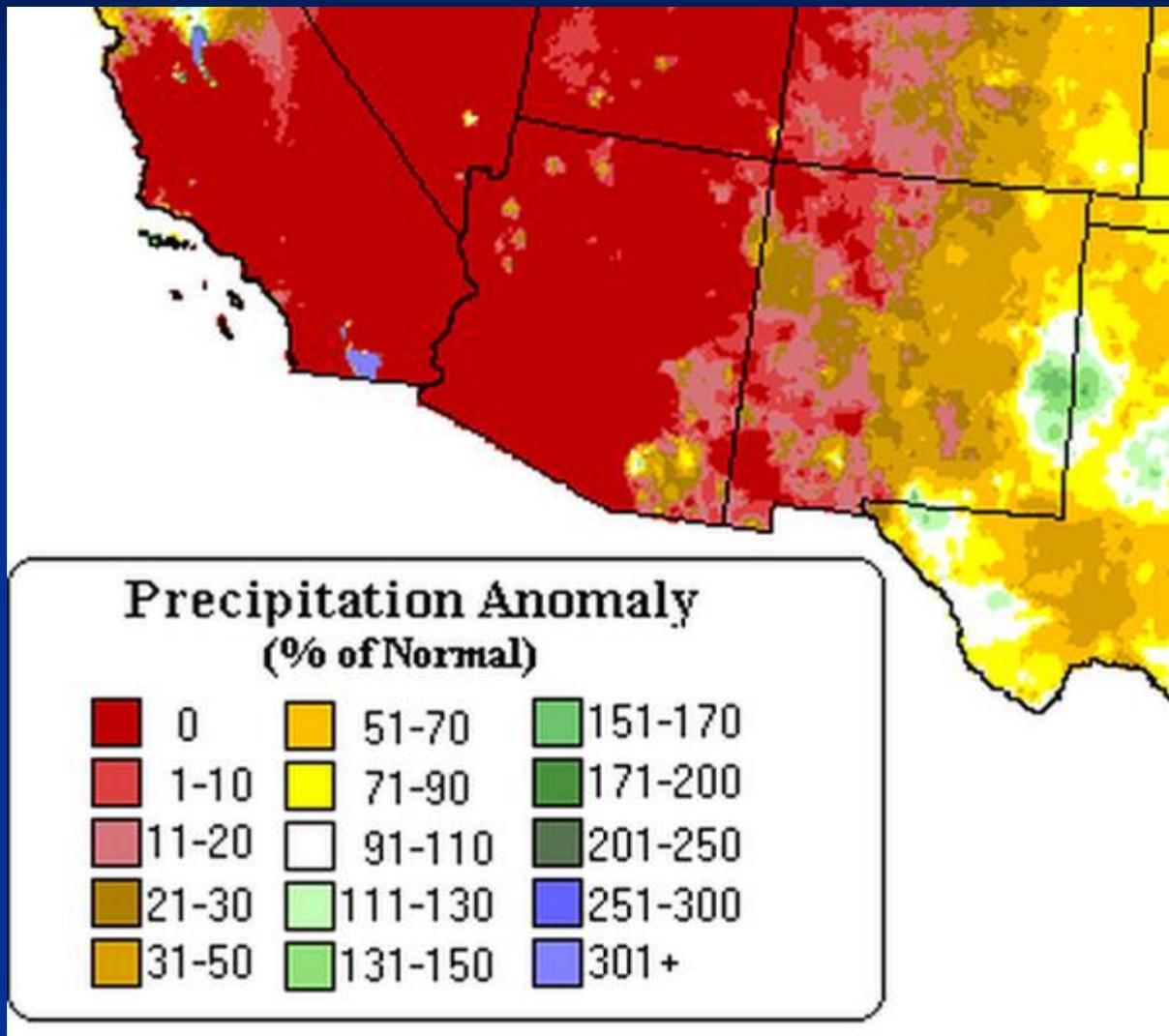
# June 2013 Statewide Precipitation:

Much below  
Normal West

Below normal  
Central

Near to above  
Normal East

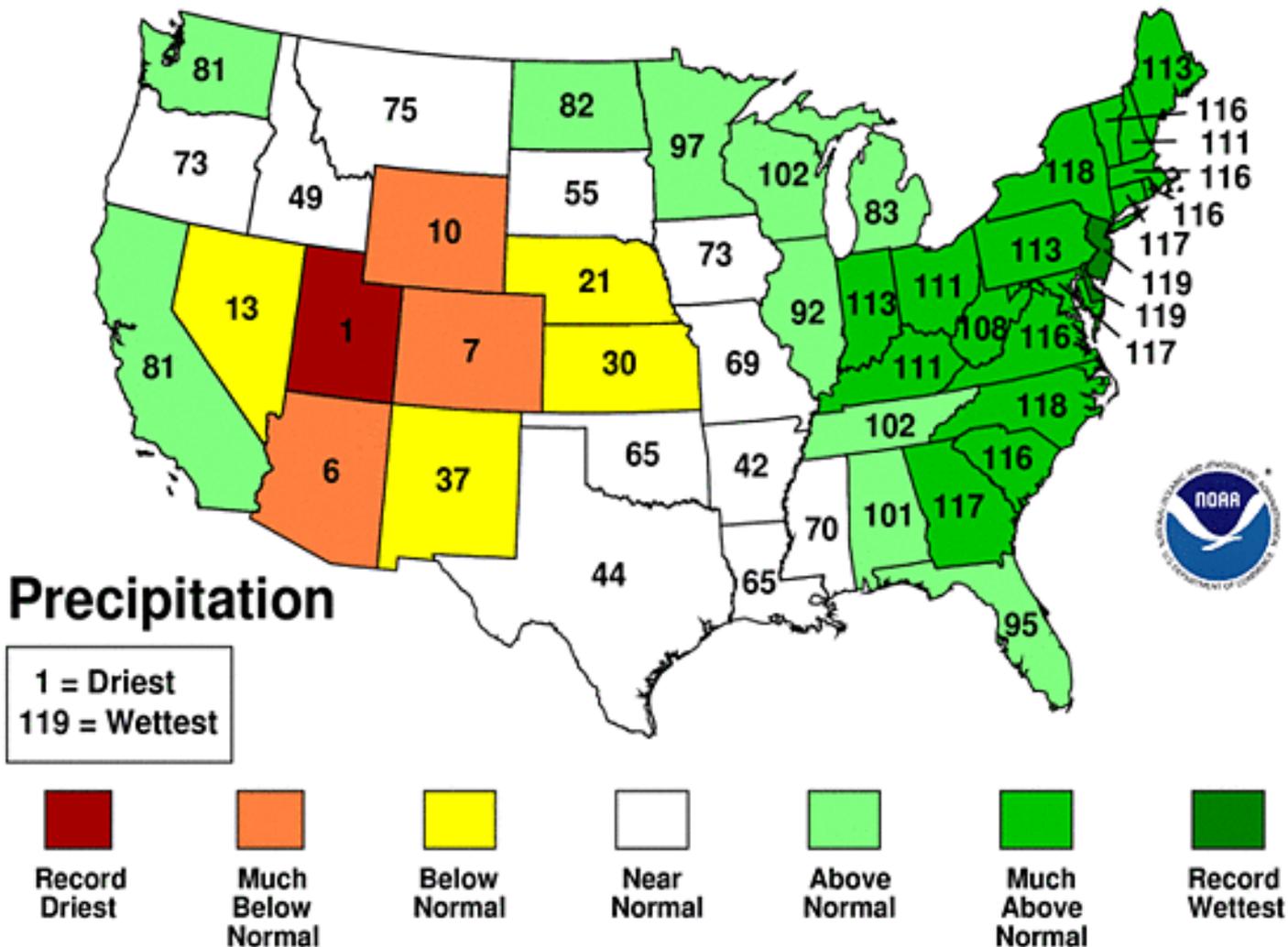
(-0.43 inches)



Data provided by PRISM Climate Group – Oregon State University

# June 2013 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA

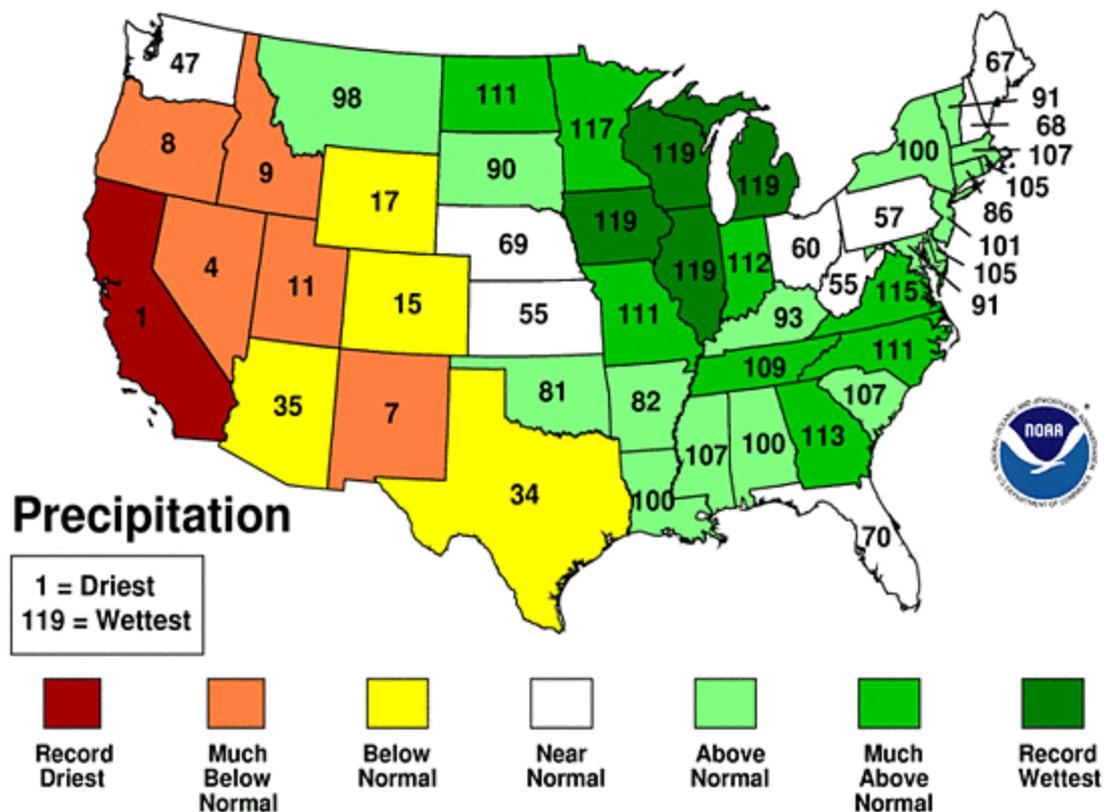




# January - June 2013 Precipitation Rank (7<sup>th</sup> driest)

## January-June 2013 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA



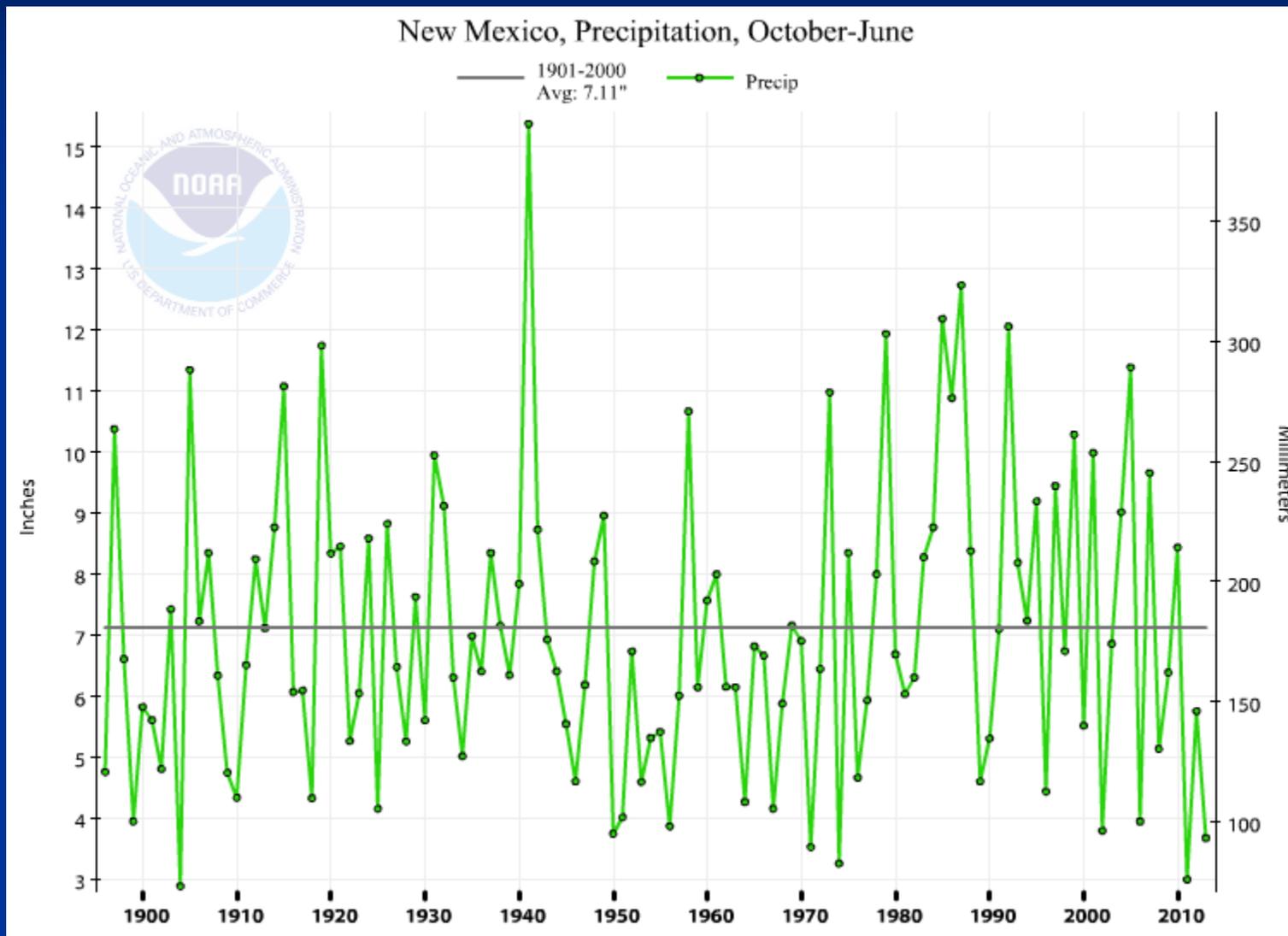
# Calendar Year 2013 Precipitation Deficits

- Jan – June 2013 precipitation totals & percent of normal:

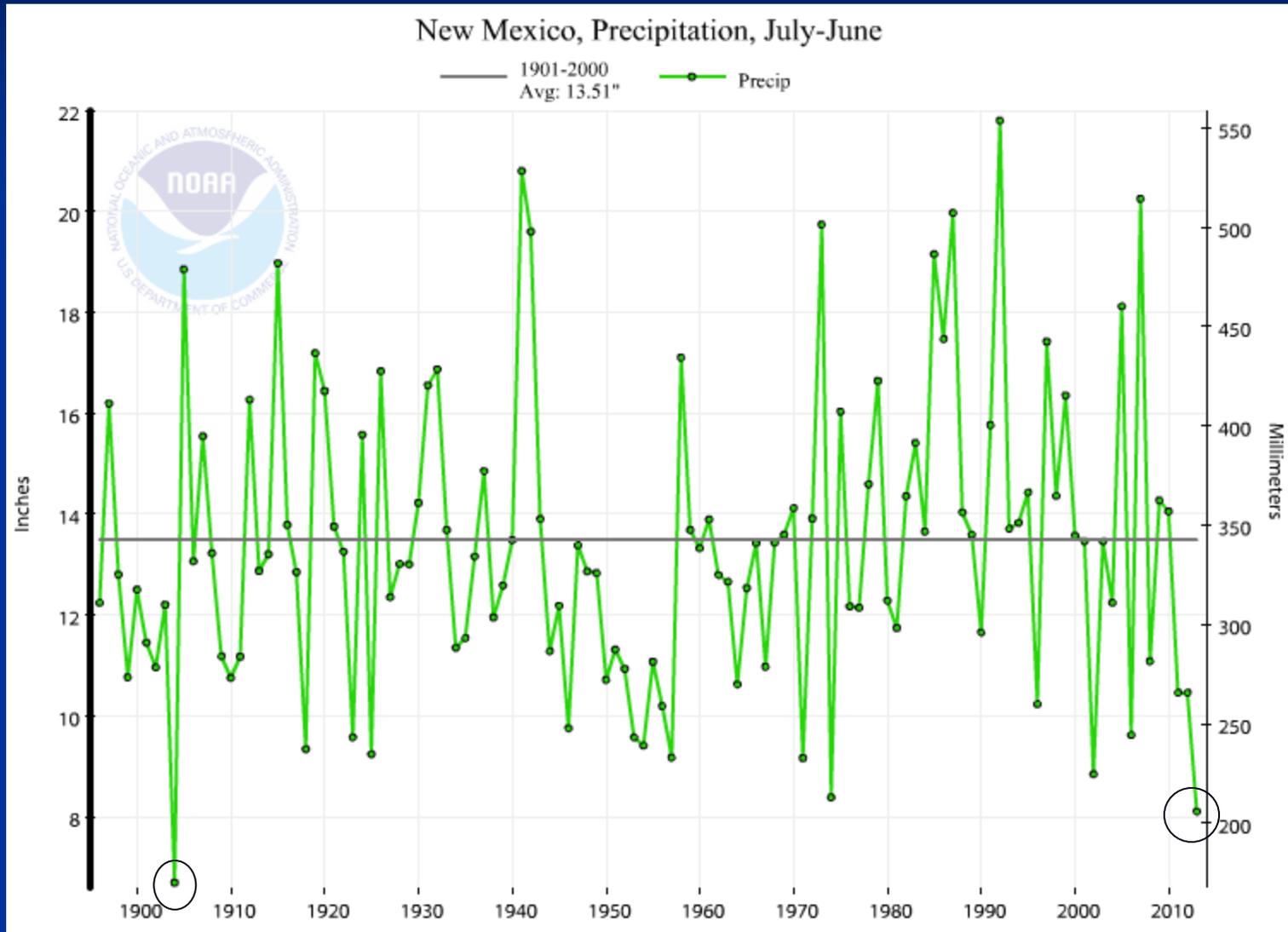
	<i>Jan – Jun '13</i>	<i>% of Normal</i>
■ Cochiti Dam	0.76 inches	16 %
■ Deming Airport	0.51	22
■ Capitan	0.85	16
■ Albuquerque Sunport	0.70	23
■ Santa Fe Airport	1.15	28
■ Socorro	0.48	14
■ Grants-Milan Airport	0.40	13
■ Roswell Airport	1.59	36
■ Carlsbad	1.45	31
■ White Sands N/M	0.48	19



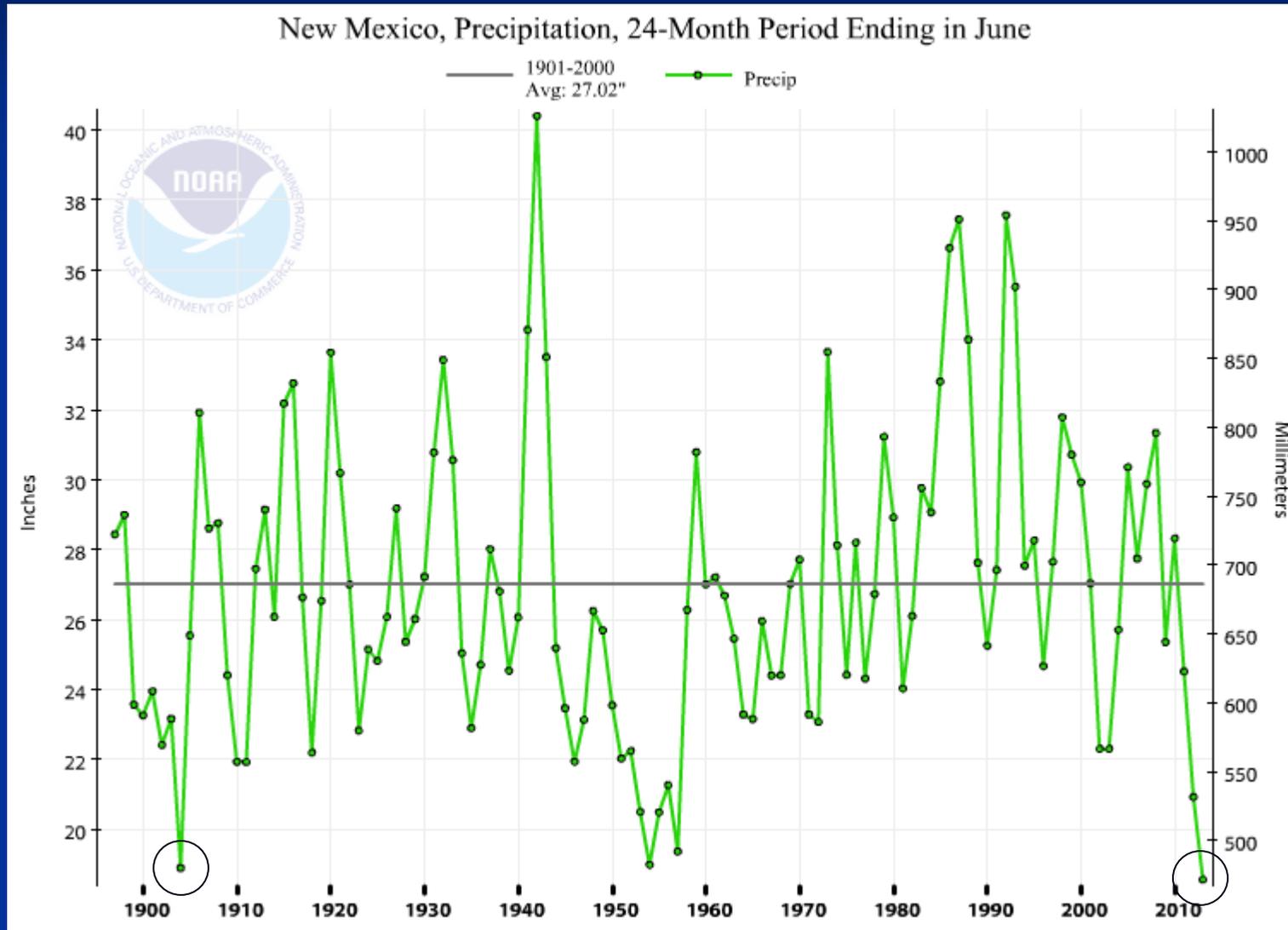
# Oct 2012 - Jun 2013 Precipitation Rank (5<sup>th</sup> driest)



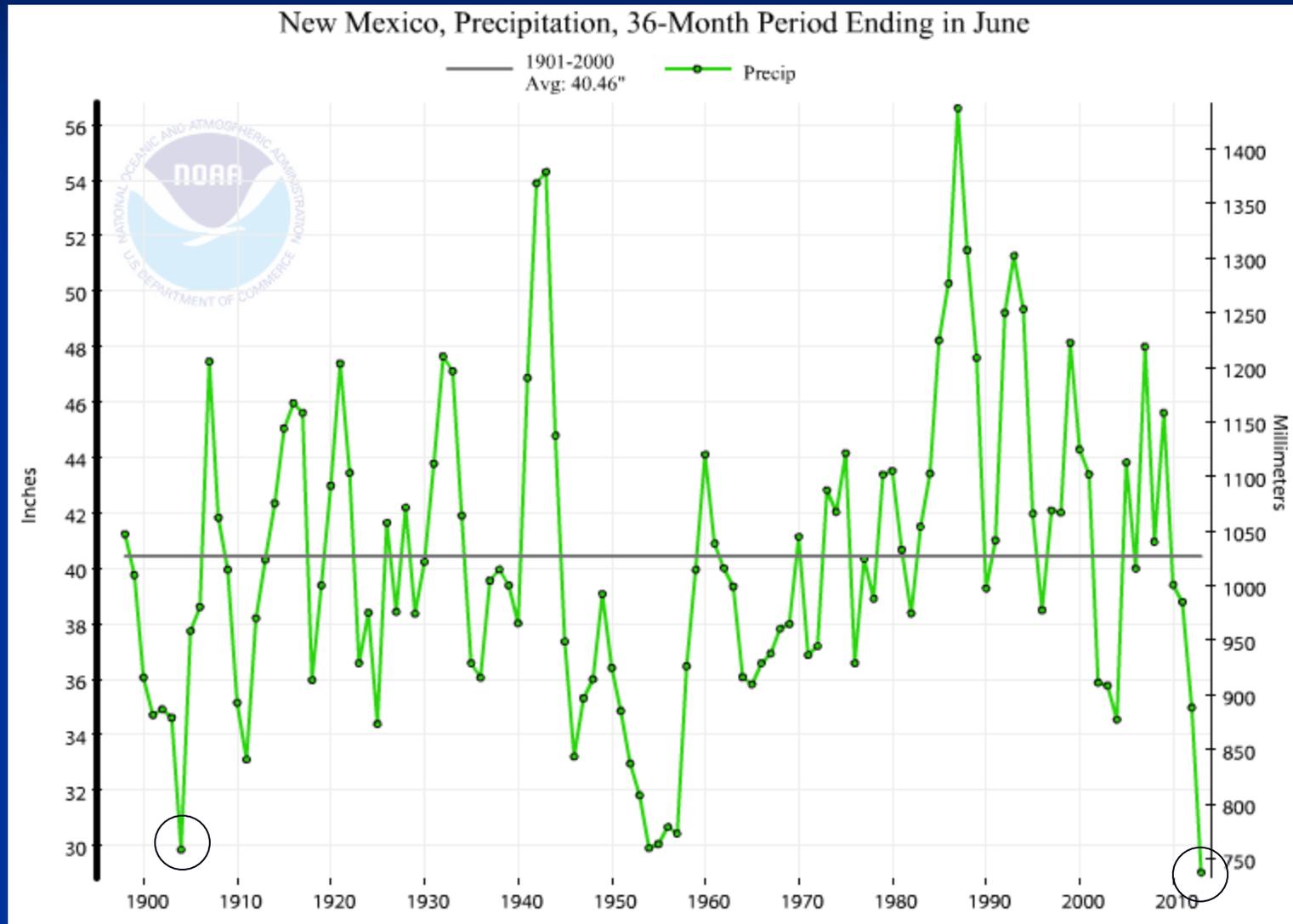
# 12 Month (July 2012 – June 2013) NM Precipitation Rank (2nd driest)



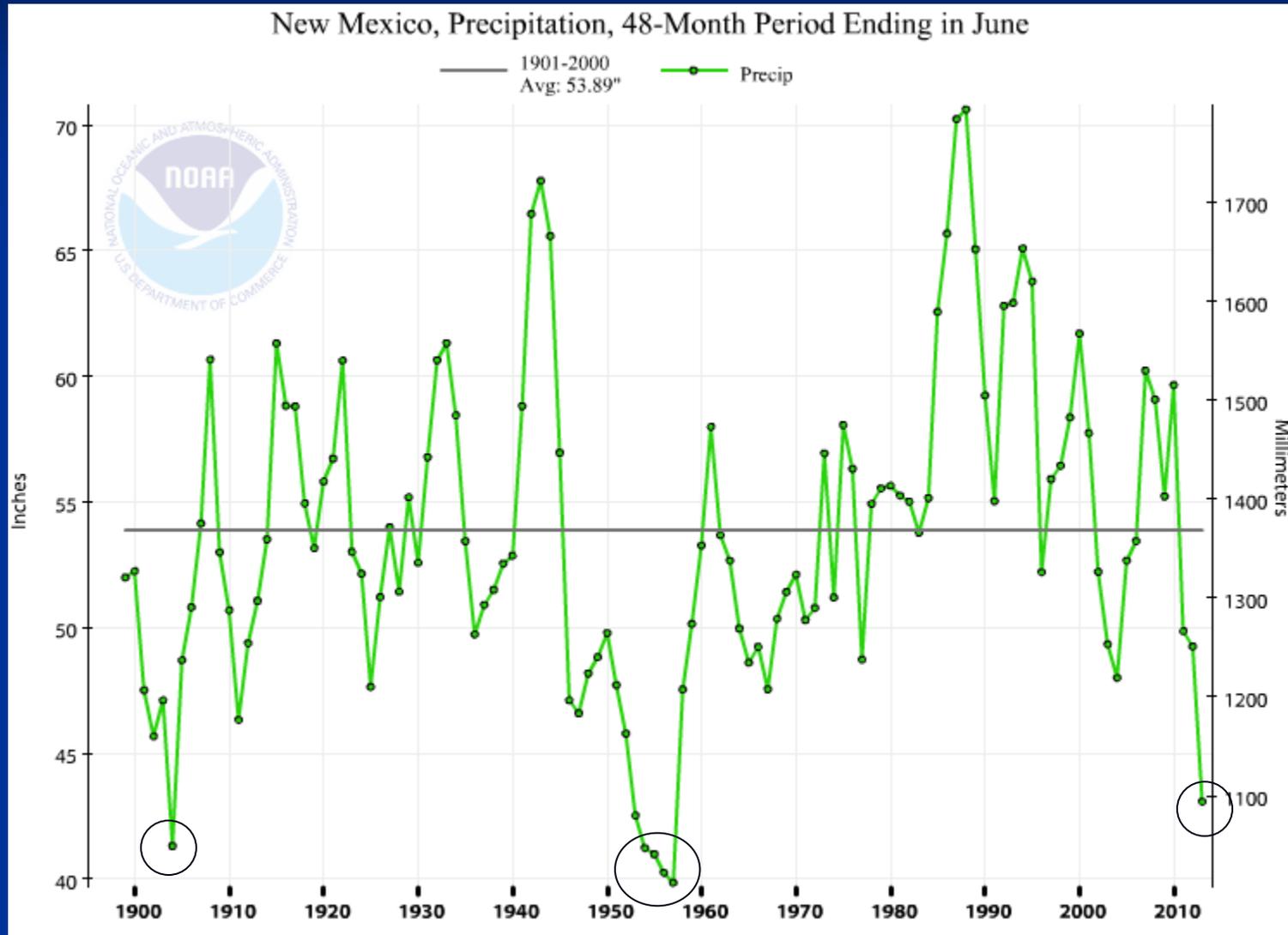
# 24 Month (July 2011 – June 2013) NM Precipitation Rank (1st driest)



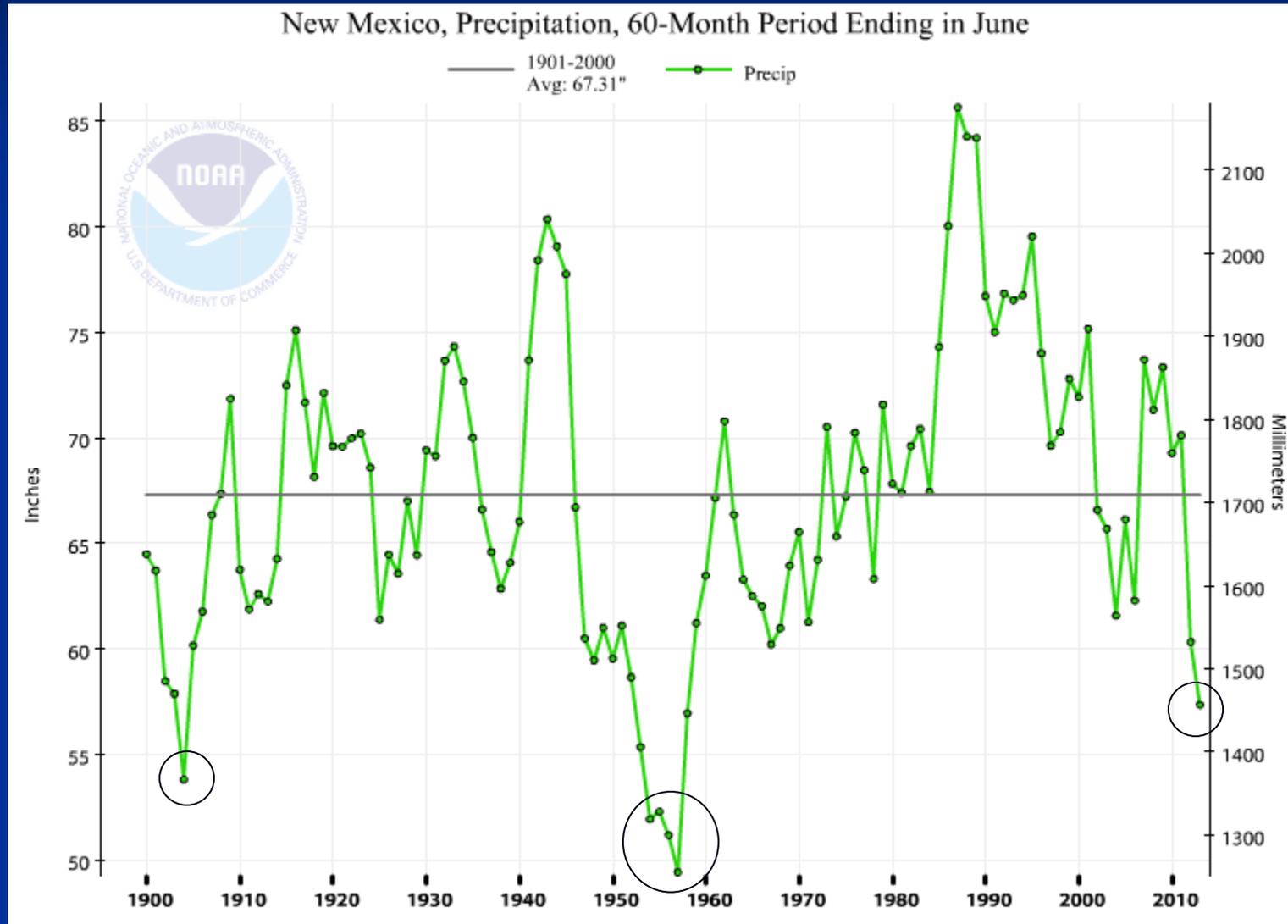
# 36 Month (July 2010 – June 2013) NM Precipitation Rank (1st driest)



# 48 Month (July 2009 – June 2013) NM Precipitation Rank (7th driest)



# 60 Month (July 2008 – June 2013) NM Precipitation Rank (8th driest)



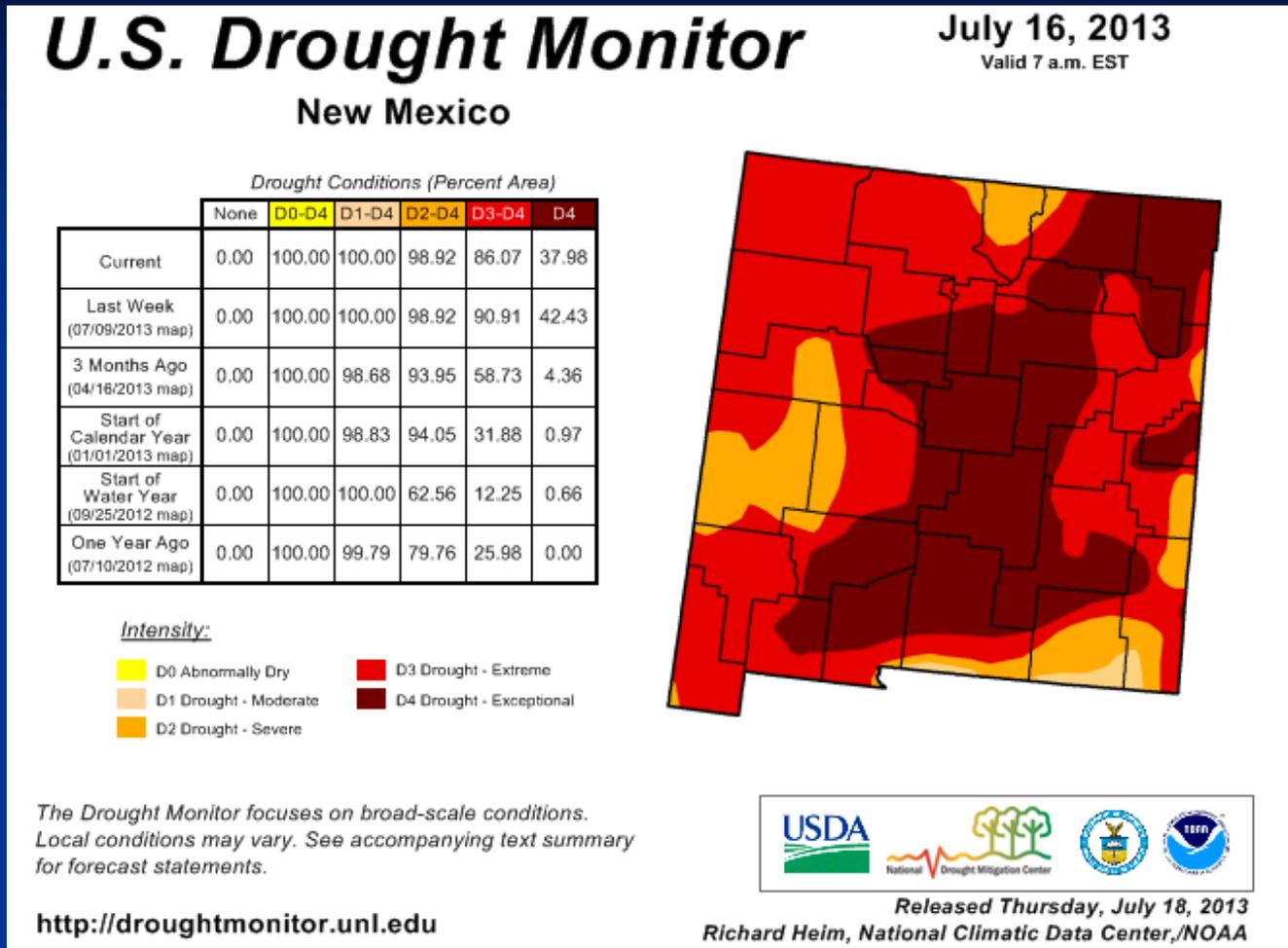
# So, what are the Precipitation Deficits? 12, 24, 36, 48 & 60 month precip. deficits



Period	Amount	20 <sup>th</sup> Century Average	Departure	Rank (out of 119 years)	Record	Wettest/Driest Since
Jan - Jun 2013 6-month period	2.41" (61.21 mm)	4.68" (118.87 mm)	-2.27" (-57.66 mm)	7 <sup>th</sup> Driest	2011	Driest since: 2011
				113 <sup>th</sup> Wettest	1941	Wettest since: 2012
Oct 2012 - Jun 2013 9-month period	3.67" (93.22 mm)	7.11" (180.59 mm)	-3.44" (-87.37 mm)	5 <sup>th</sup> Driest	1904	Driest since: 2011
				114 <sup>th</sup> Wettest	1941	Wettest since: 2012
Jul 2012 - Jun 2013 12-month period	8.10" (205.74 mm)	13.51" (343.15 mm)	-5.41" (-137.41 mm)	2 <sup>nd</sup> Driest	1904	Driest since: 1904
				117 <sup>th</sup> Wettest	1992	Wettest since: 2012
Jul 2011 - Jun 2013 24-month period	18.56" (471.42 mm)	27.02" (686.31 mm)	-8.46" (-214.89 mm)	1 <sup>st</sup> Driest	2013	Driest to Date
				117 <sup>th</sup> Wettest	1942	Wettest since: 2012
Jul 2010 - Jun 2013 36-month period	29.02" (737.11 mm)	40.46" (1,027.68 mm)	-11.44" (-290.57 mm)	1 <sup>st</sup> Driest	2013	Driest to Date
				116 <sup>th</sup> Wettest	1987	Wettest since: 2012
Jul 2009 - Jun 2013 48-month period	43.07" (1,093.98 mm)	53.89" (1,368.81 mm)	-10.82" (-274.83 mm)	7 <sup>th</sup> Driest	1957	Driest since: 1957
				109 <sup>th</sup> Wettest	1988	Wettest since: 2012
Jul 2008 - Jun 2013 60-month period	57.34" (1,456.44 mm)	67.31" (1,709.67 mm)	-9.97" (-253.23 mm)	8 <sup>th</sup> Driest	1957	Driest since: 1958
				107 <sup>th</sup> Wettest	1987	Wettest since: 2012



# July 16: New Mexico Drought Status



■ **Extreme to Exceptional Drought:** Much of New Mexico (86%!)

■ **Moderate to Severe Drought:** Rest of New Mexico

# New Mexico Drought: 1 Month Change

## U.S. Drought Monitor

### New Mexico

July 16, 2013

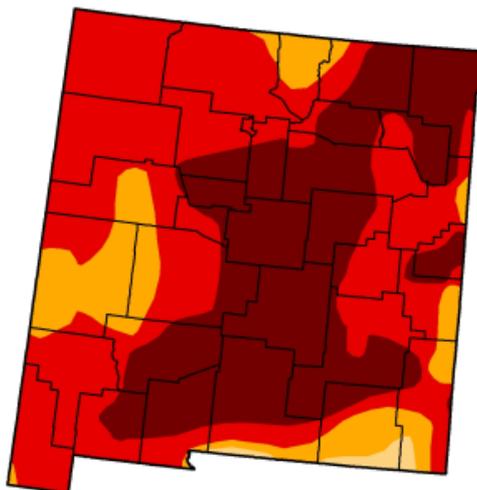
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	98.92	86.07	37.98
Last Week (07/09/2013 map)	0.00	100.00	100.00	98.92	90.91	42.43
3 Months Ago (04/16/2013 map)	0.00	100.00	98.68	93.95	58.73	4.36
Start of Calendar Year (01/01/2013 map)	0.00	100.00	98.83	94.05	31.88	0.97
Start of Water Year (09/25/2012 map)	0.00	100.00	100.00	62.56	12.25	0.66
One Year Ago (07/10/2012 map)	0.00	100.00	99.79	79.76	25.98	0.00

Intensity:

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



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu>



Released Thursday, July 18, 2013  
Richard Heim, National Climatic Data Center, NOAA

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Start of Calendar Year (01/01/2013 map)	0.00	100.00	98.83	94.05	31.88	0.97
Start of Water Year (09/25/2012 map)	0.00	100.00	100.00	62.56	12.25	0.66
One Year Ago (06/12/2012 map)	0.00	100.00	99.64	73.03	23.46	0.00

Intensity:

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

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu>



Released Thursday, June 20, 2013  
National Drought Mitigation Center,

## U.S. Drought Monitor

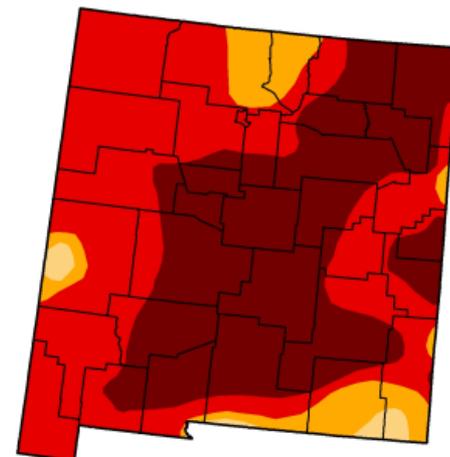
### New Mexico

June 18, 2013

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	100.00	98.49	90.18	44.13
Last Week (06/11/2013 map)	100.00	100.00	98.72	82.10	44.70
3 Months Ago (03/18/2013 map)	0.77	98.47	89.85	49.95	4.25



Not much change except some improvement in far EC and WC New Mexico.

# New Mexico Drought: 3 Month Change

## U.S. Drought Monitor

### New Mexico

July 16, 2013

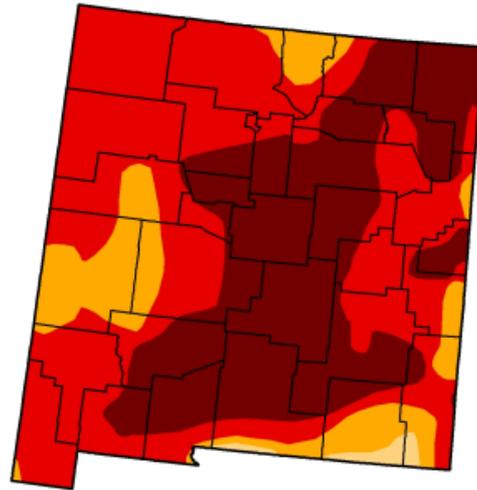
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	98.92	86.07	37.98
Last Week (07/09/2013 map)	0.00	100.00	100.00	98.92	90.91	42.43
3 Months Ago (04/16/2013 map)	0.00	100.00	98.68	93.95	58.73	4.36
Start of Calendar Year (01/01/2013 map)	0.00	100.00	98.83	94.05	31.88	0.97
Start of Water Year (09/25/2012 map)	0.00	100.00	100.00	62.56	12.25	0.66
One Year Ago (07/10/2012 map)	0.00	100.00	99.79	79.76	25.98	0.00

Intensity:

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



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu>



Released Thursday, July 18, 2013  
Richard Heim, National Climatic Data Center, NOAA

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Calendar Year (01/01/2013 map)	0.00	100.00	100.00	98.92	86.07	37.98
Start of Water Year (09/25/2012 map)	0.00	100.00	100.00	62.56	12.25	0.66
One Year Ago (04/10/2012 map)	0.00	100.00	80.46	58.60	24.94	9.03

Intensity:

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

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu>

- Drought worsened in many areas

## U.S. Drought Monitor

### New Mexico

April 16, 2013

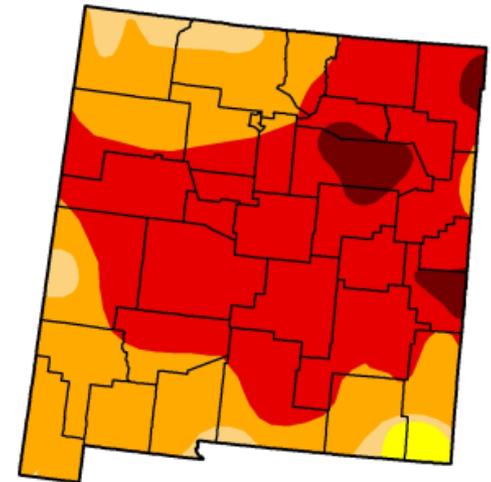
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	98.92	86.07	37.98
Last Week (07/09/2013 map)	0.00	100.00	100.00	98.92	90.91	42.43
3 Months Ago (04/16/2013 map)	0.00	100.00	98.68	93.95	58.73	4.36
Start of Calendar Year (01/01/2013 map)	0.00	100.00	98.83	94.05	31.88	0.97
Start of Water Year (09/25/2012 map)	0.00	100.00	100.00	62.56	12.25	0.66
One Year Ago (07/10/2012 map)	0.00	100.00	99.79	79.76	25.98	0.00

Intensity:

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



- 86% of NM is in extreme or exceptional drought!
- Entire state in moderate or worse drought.



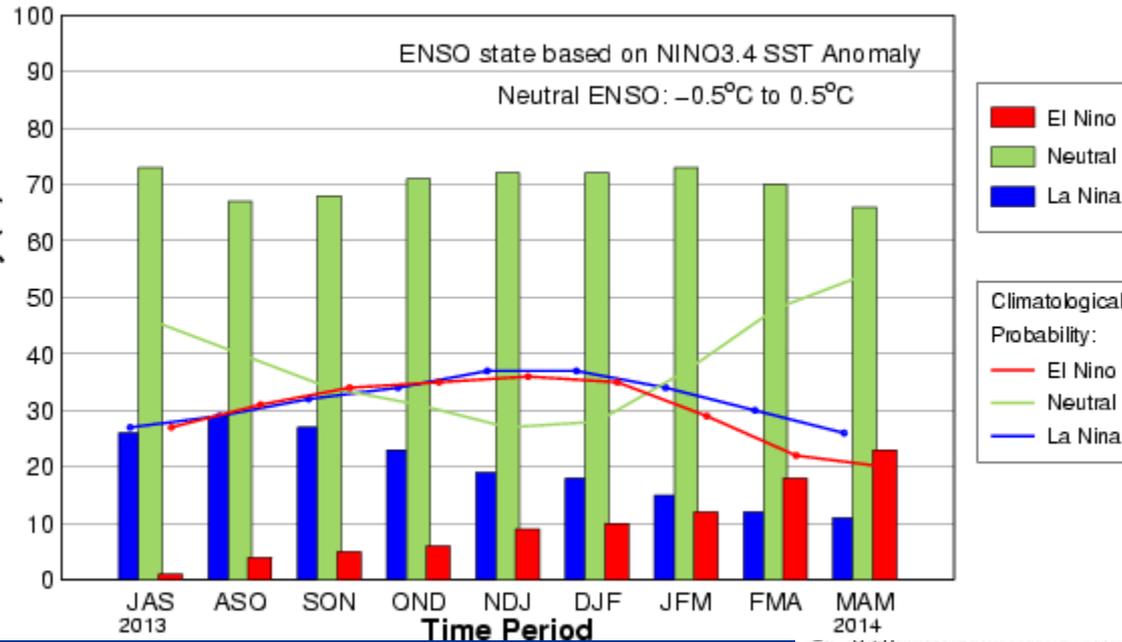
Released Thursday, April 18, 2013  
David Miskus, NOAA/NWS/NCEP/Climate Prediction Center



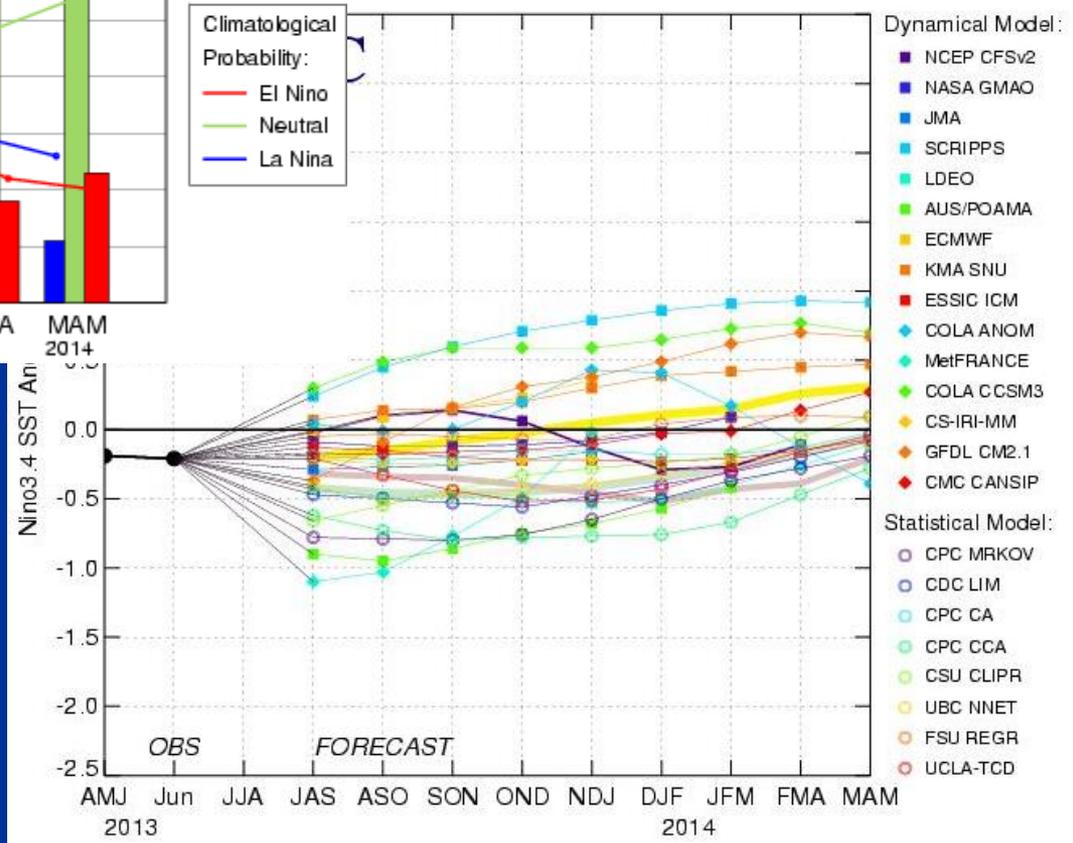
# Extended Weather/Climate Outlooks

# Model consensus supports ENSO Neutral conditions into Autumn

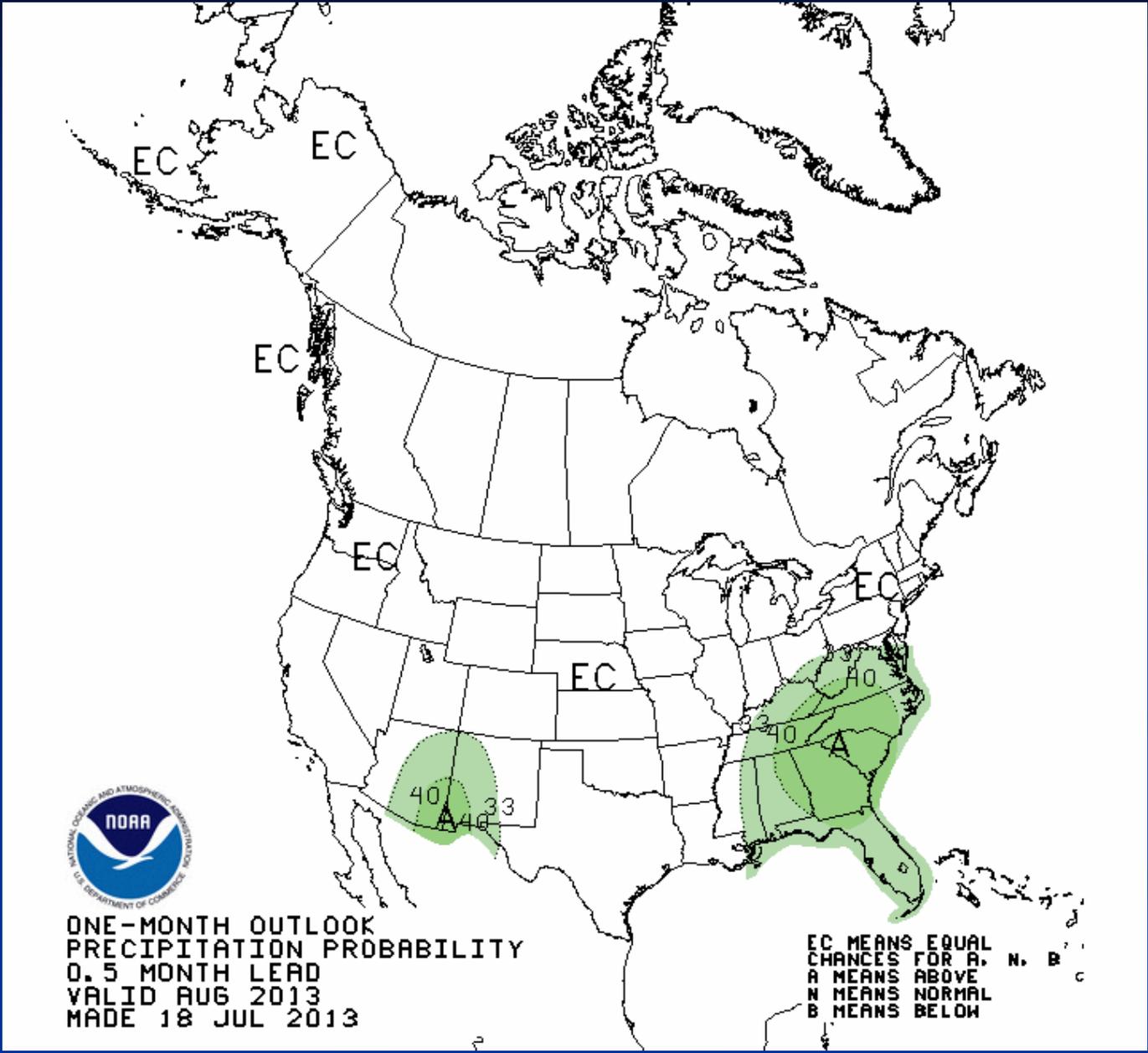
Mid-Jul IRI/CPC Plume-Based Probabilistic ENSO Forecast



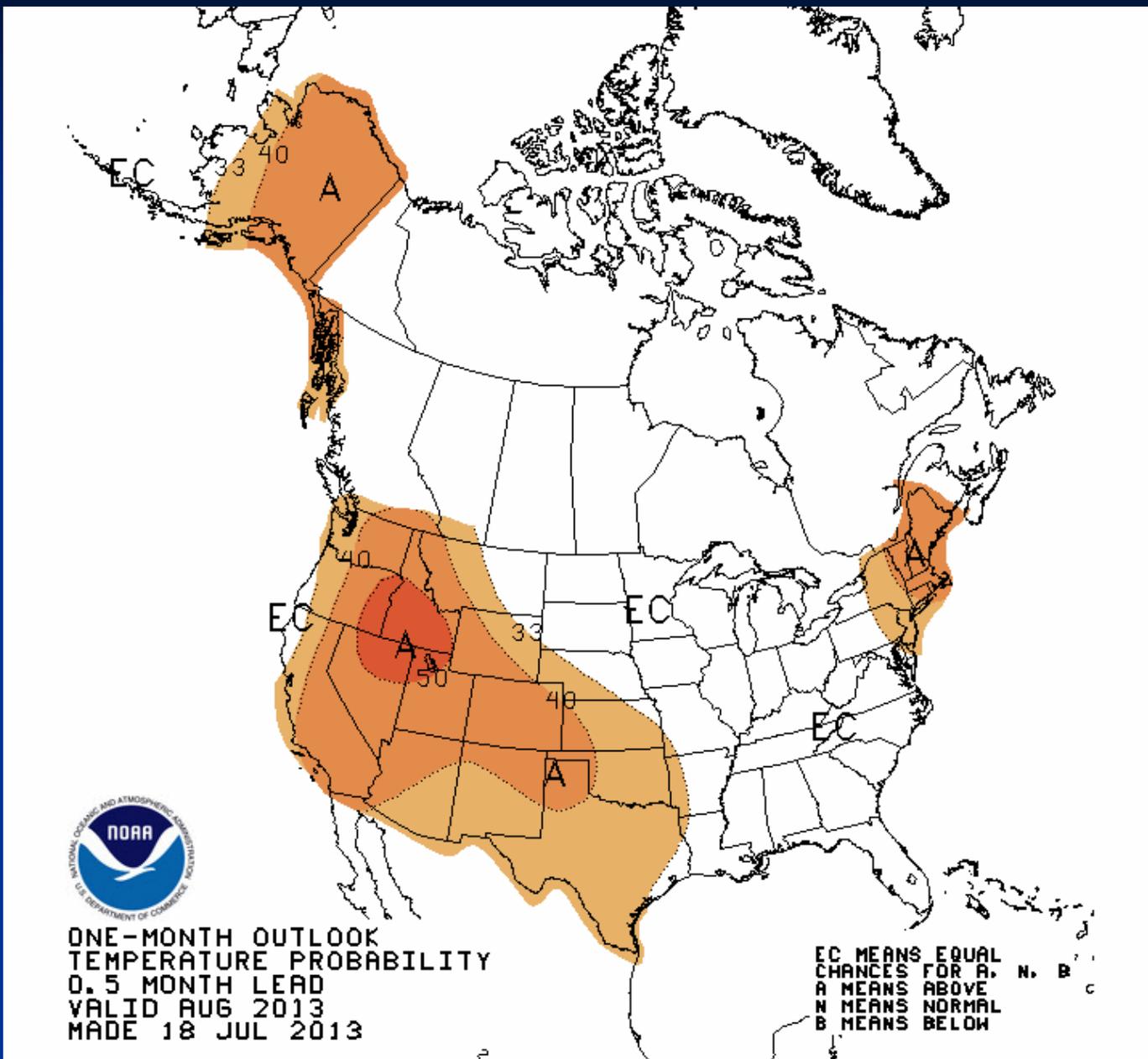
Plume of Model ENSO Predictions



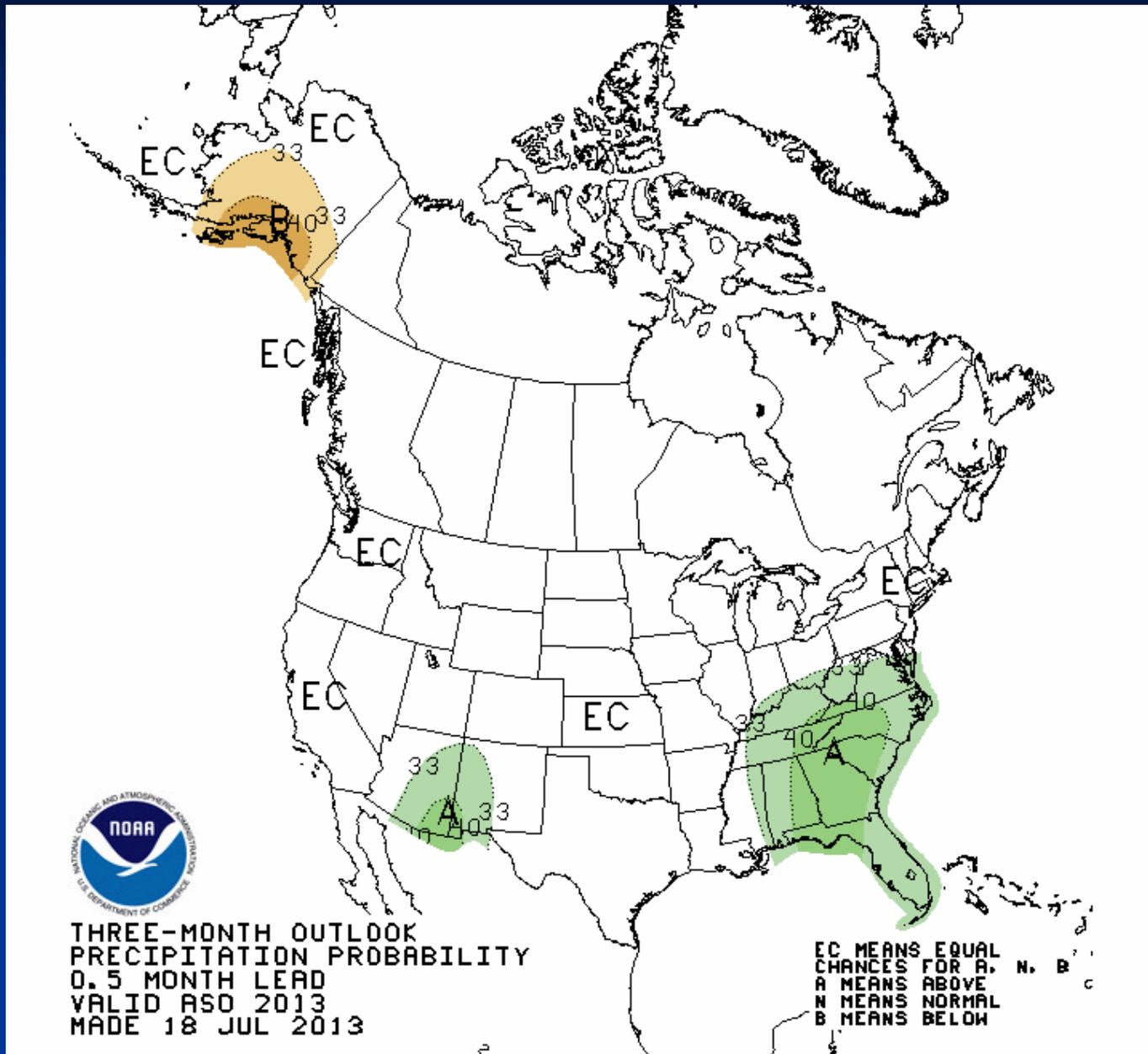
# CPC August 2013 Precipitation Outlook



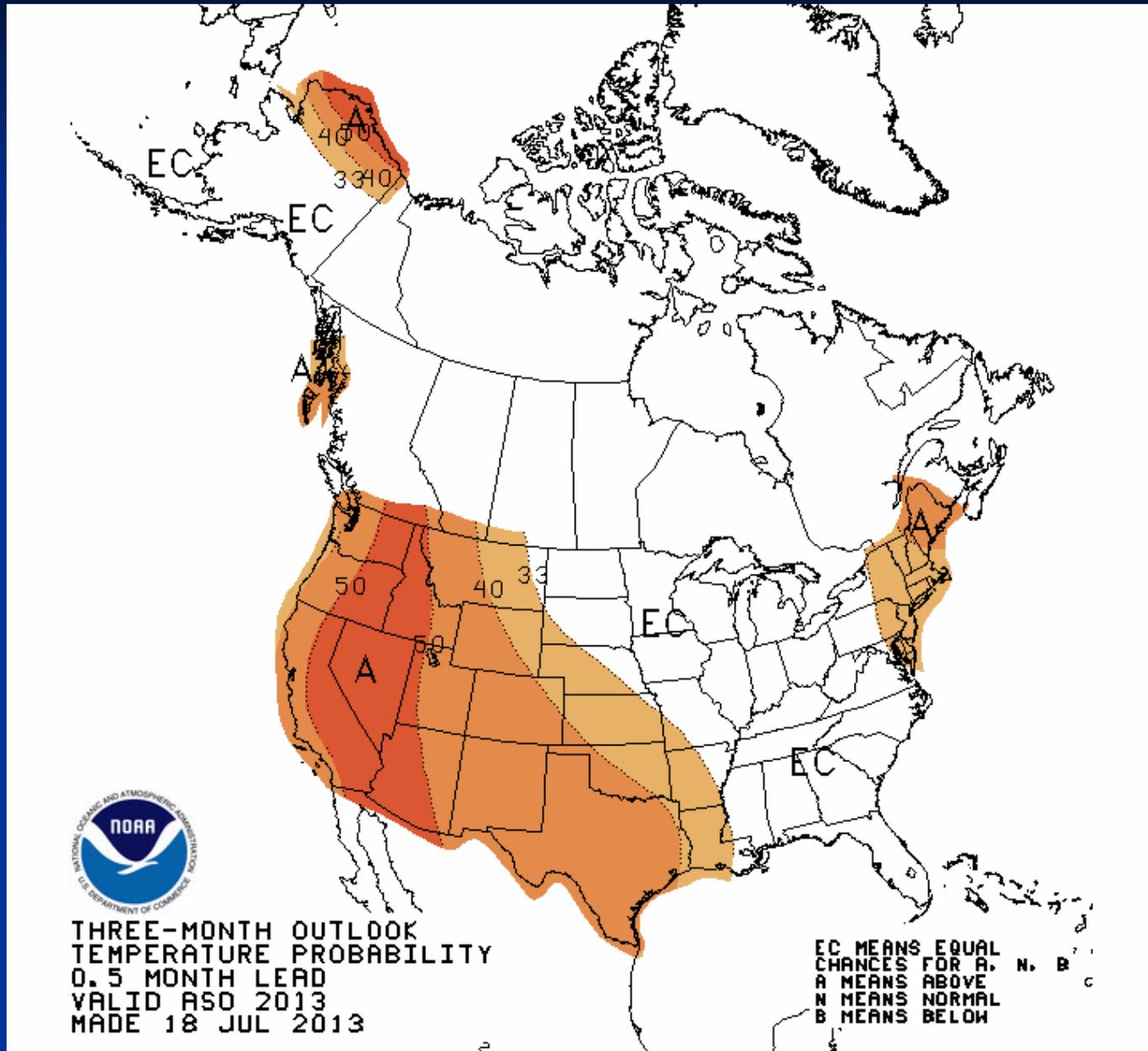
# CPC August 2013 Temperature Outlook



# CPC Aug – Oct 2013 Precipitation Outlook



# CPC Aug – Oct 2013 Temperature Outlook



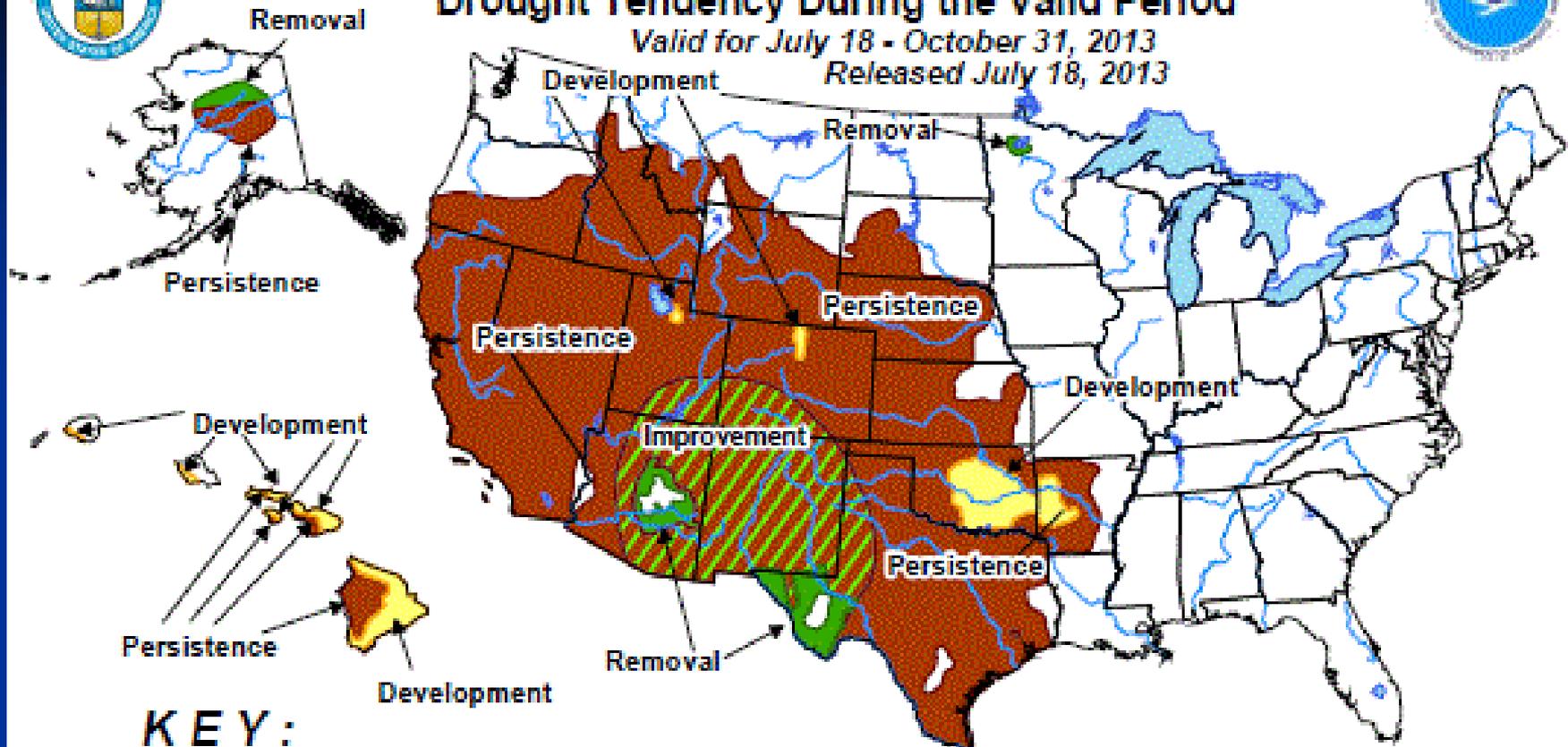


# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period

Valid for July 18 - October 31, 2013

Released July 18, 2013



### KEY:

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

No Drought  
Posted/Predicted

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 Green and Brown hatched 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)



# Albuquerque, NM

Home

Site Map

News

Organization

Search for:

NWS

All NOAA

**LATEST STORM REPORTS**

[Click here - Tuesday Wind Reports](#)

Top News of the Day

- [First Snowfall Dates Across Northern & Central New Mexico](#)
- [First Fall Freeze Dates For Cities Across New Mexico](#)
- [Follow us on Twitter!](#)

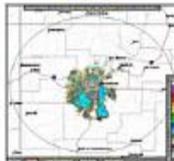
Find us on Facebook

Local forecast by "City, St" or Zip Code

Graphical Forecasts



Radar



Satellite



Weather Map

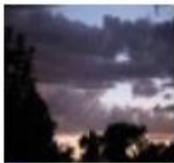
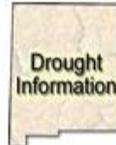


Photo of the Week



**Chuck Jones**  
**[charles.h.jones@noaa.gov](mailto:charles.h.jones@noaa.gov)**

**[weather.gov/abq](http://weather.gov/abq)**

Watches & Warnings

Observations

Forecast Graphics

Rivers & Lakes

Climate

Submit a Storm Report

National Weather Service  
 Albuquerque, NM Weather Forecast Office  
 2341 Clark Carr Loop SE  
 Albuquerque, NM 87106-5633  
 (505) 243-0702  
 Page Author: ABQ Webmaster  
 Web Master's E-mail: [sr-abq.webmaster@noaa.gov](mailto:sr-abq.webmaster@noaa.gov)