

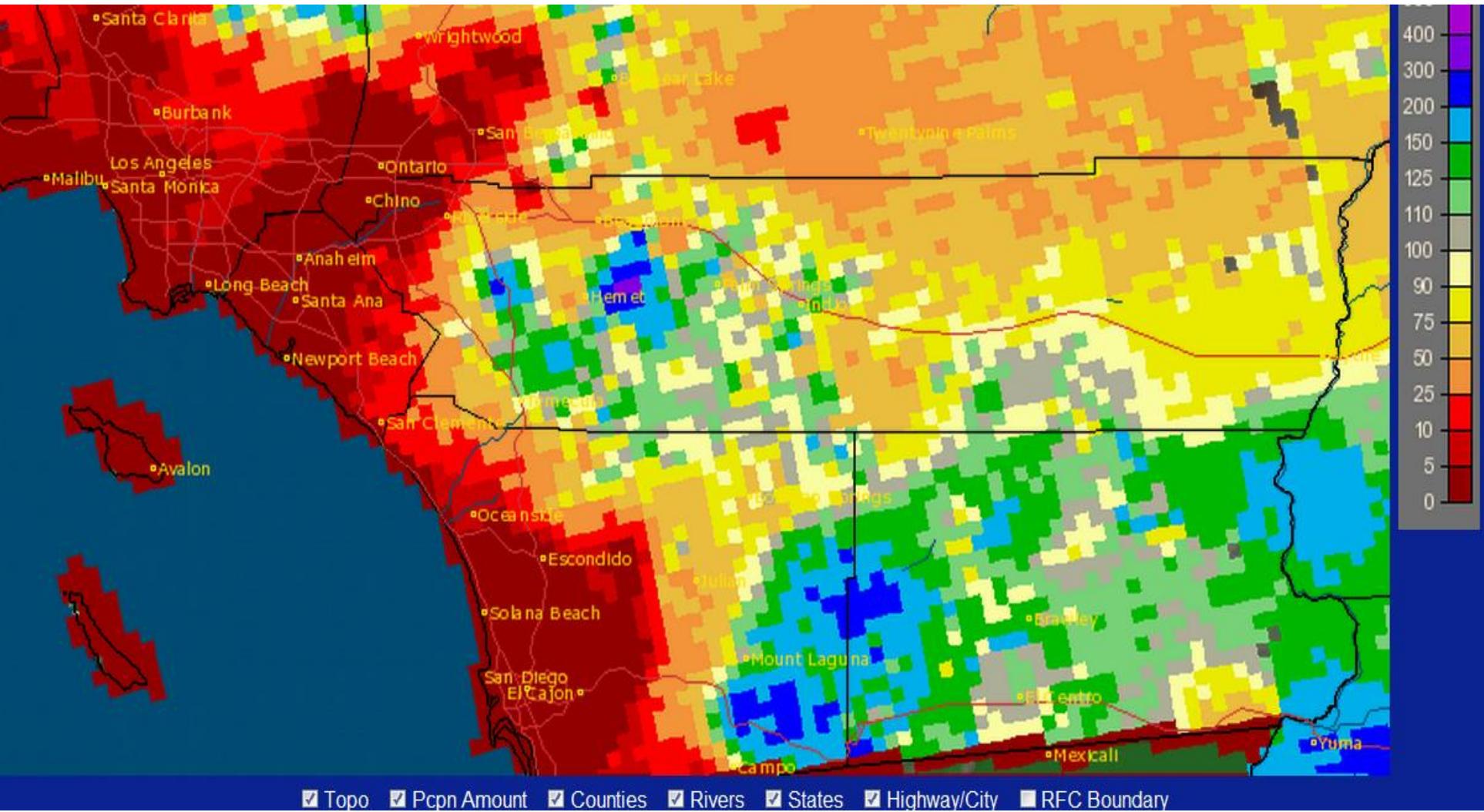
# Top Weather Events 2012



NWS Office at San Diego  
Alex Tardy

# Monsoon 2012

Percent of normal July 21 to September 21



# Fish Creek July 30

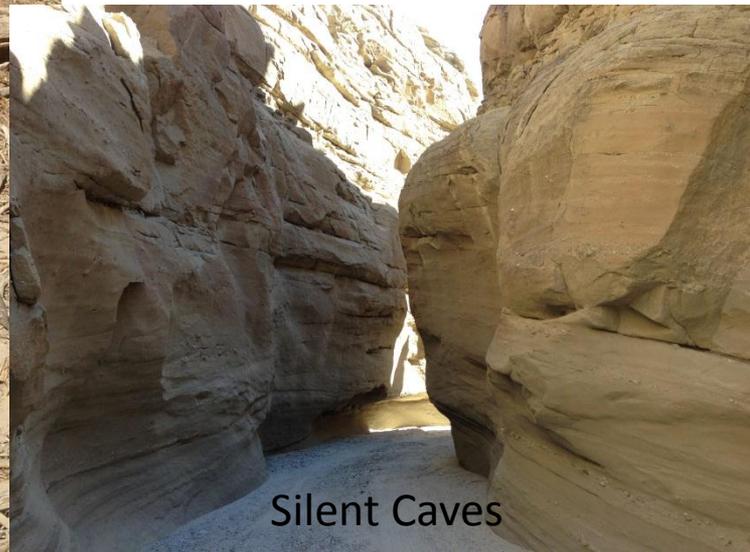
## *Desert Flash Flood*



Alex Tardy  
Anza Borrego State Park



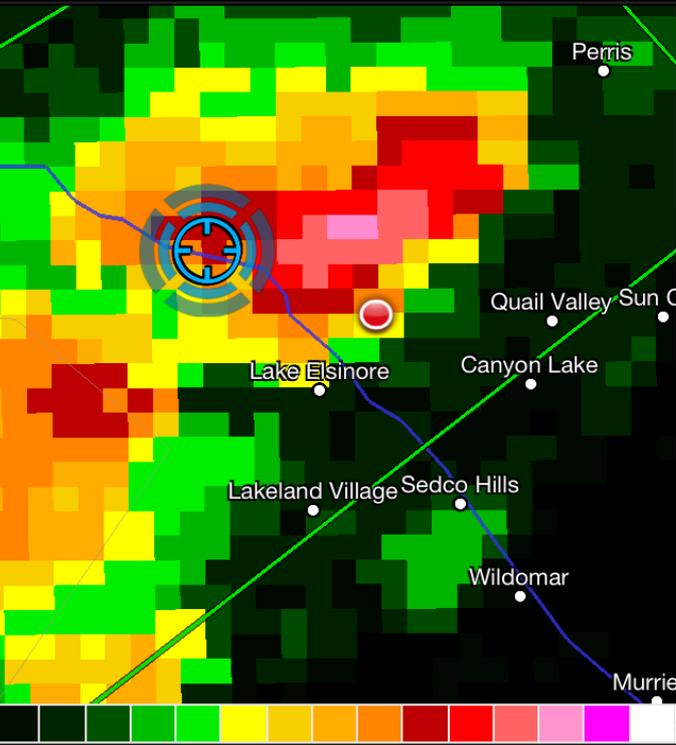
Alex Tardy  
Debris field above dry creek



Silent Caves

San Diego - 2:49 PM

1 



# September 9



Temecula  
Alex Tardy



Lake Elsinore  
Alex Tardy



Temecula  
Alex Tardy

San Diego - 2:49 PM

1



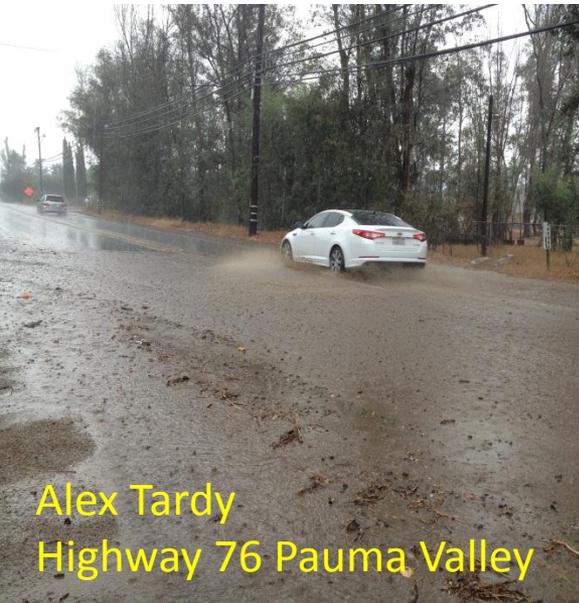
# September 10



Alex Tardy  
Lake Elsinore



Daily Press  
Victorville



Alex Tardy  
Highway 76 Pauma Valley



Alex Tardy  
Highway 76 Palomar Mtn



2 million estimated cost from damage

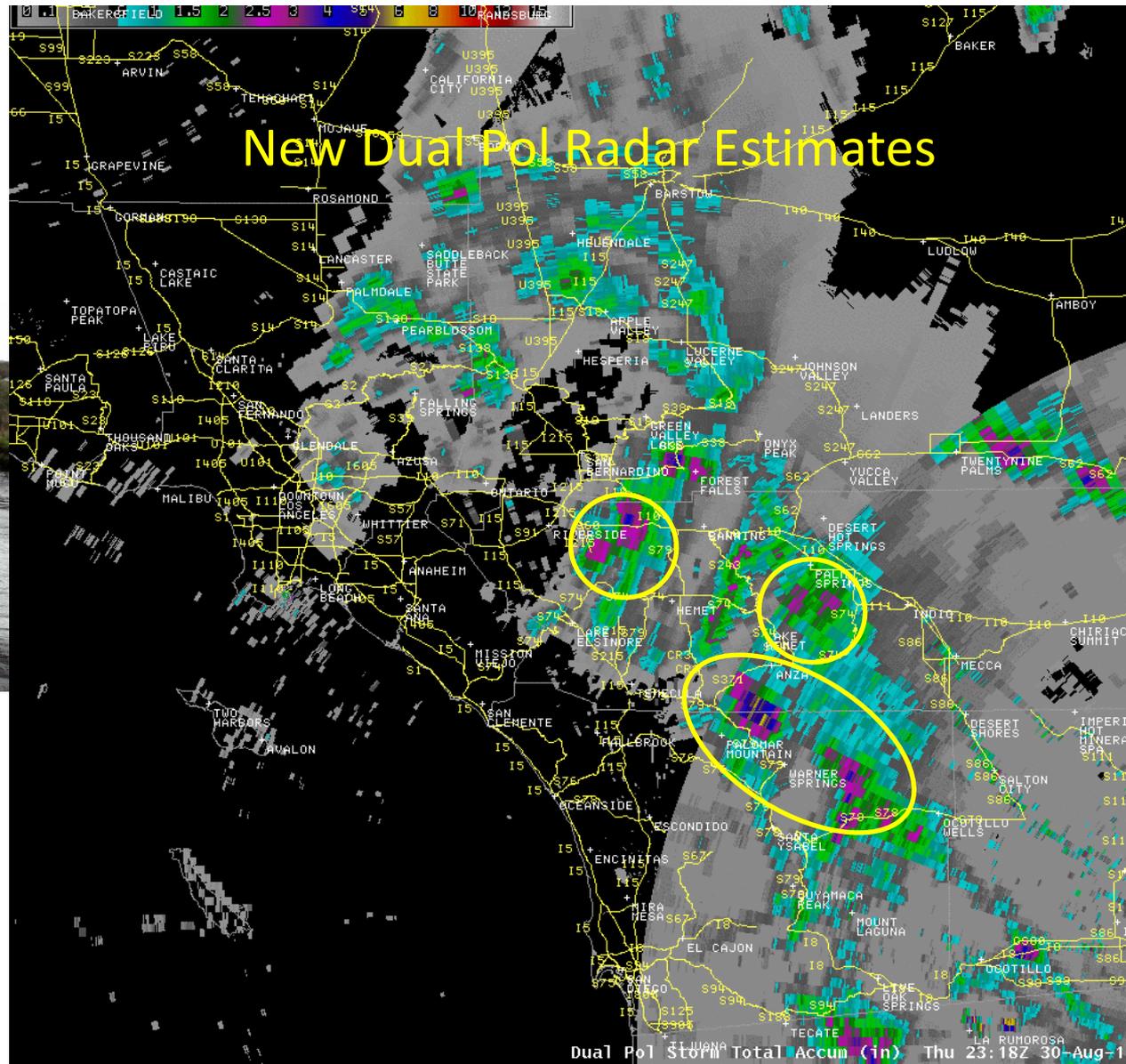


# August 30, 2012

## Flash Floods and Debris Flow



Debris Flow on August 30  
Chihuahua Valley  
submitted to NWS



# August 30, 2012

## *Flash Floods*

### Moreno Valley and Redlands



Press Enterprise

# August 30, 2012 Flash Flood

## Cathedral City

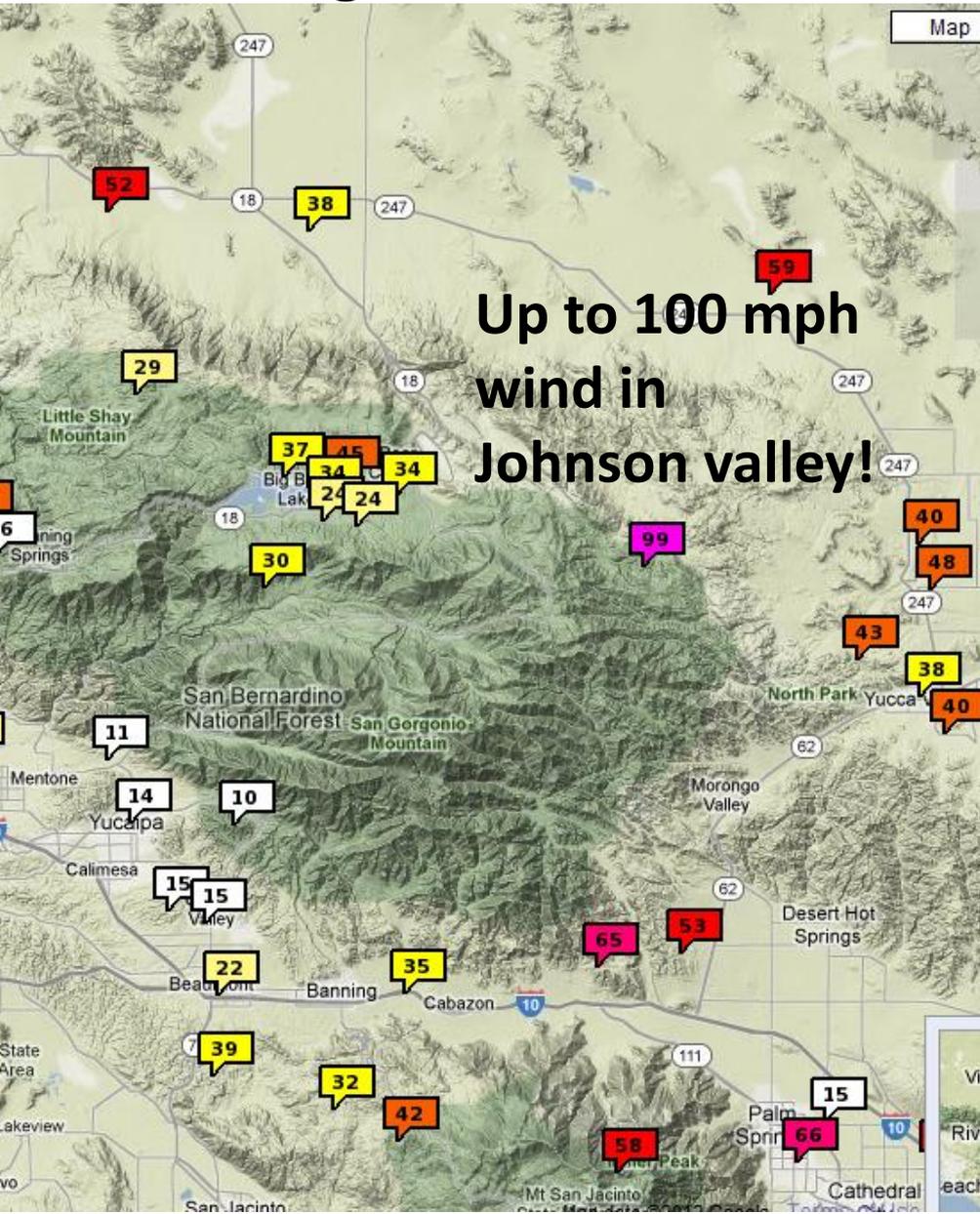


KESQ-TV



# January 21, 2012 severe downslope wind

## High Deserts, Coachella Valley and SD deserts



60 to 70 mph winds in Palm Springs, Palm Desert and Rancho Mirage



# Palm Springs area



KESQ



KESQ



KESQ



EM

# KESQ – Humana pro golf tournament



KESQ



# August 2012

## San Bernardino Mountains and High Desert Storms



Alex Tardy  
Victorville August 11



Alex Tardy Big Bear  
August 11



Wrightwood August 9  
Ron Heinig



Victorville  
August 17  
Skywarn

# Severe Storms August 12

## Downburst winds



# August 17, 2012 flash floods Forest Falls, San Bernardino Mountains



Forest Falls  
YouTube

# Landspouts Summer 2012



Will Wilkins  
Near Perris

September 9

*(C) 2012 Will Wilkins*

Menifee  
Submitted to NWS



August 12



Pedersen  
Near Perris

September 10

# *Waterspouts* April 13

## San Clemente pier and Oceanside



# December 2012



Khristian Snyder



Waterspout photos submitted to NWS from  
near San Clemente on December 30

# Fast burning brush fires

## Chihuahua Valley August 9, 2012

Banner – 5321 acres

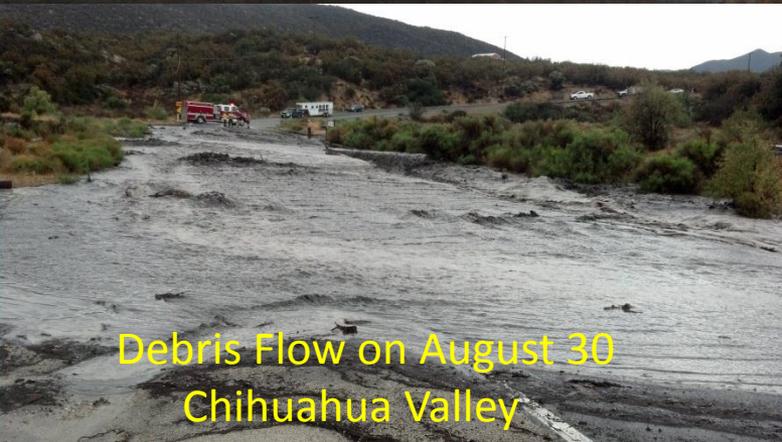
Old – 995 acres

Vallecito lightning complex – 22,500  
acres

Buck – 2681 acres

Chihuahua – 2007 acres

Shockey – 2851 (11 residence and 14  
outbuildings destroyed and one fatality)

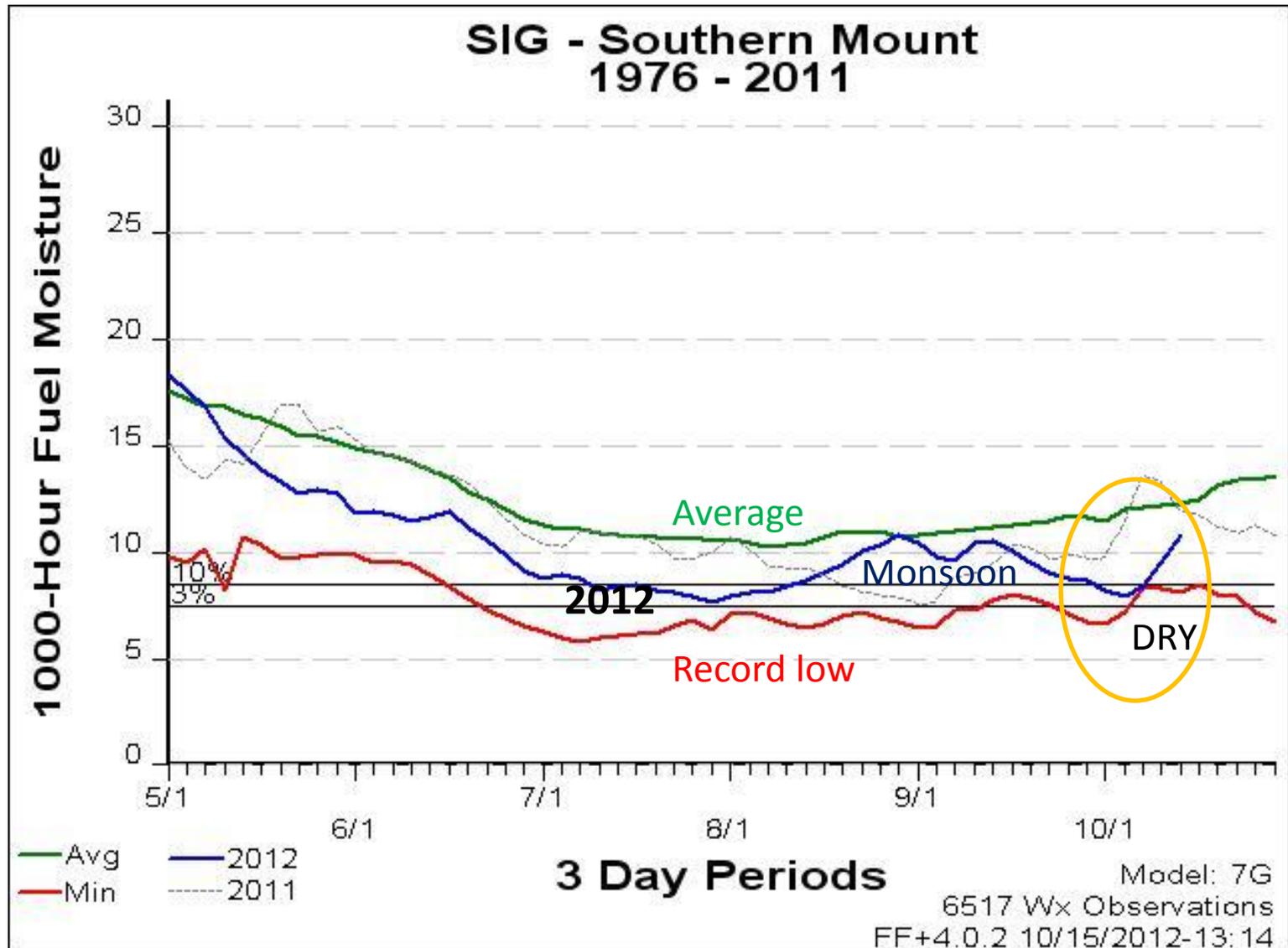


Debris Flow on August 30  
Chihuahua Valley



View of fire  
Alex Tardy

# Fuel moisture levels elevated by monsoon storms but at **all-time low October 1**



# Sunset Beach December 13-14

## “king tide” tidal surge and rain



Huntington Beach EM



King Tide Flooding

TRAFFIC



101 BETWEEN 170 AND I-405 -NORTHBOUND DRIVE TIME: 6 MINUTES AV

# Low snow levels February 14, 27 and March 18

Weather currents  
Temecula



Alex Tardy  
Highway 79  
March 18



Patch  
Ramona



Patch  
Wynola

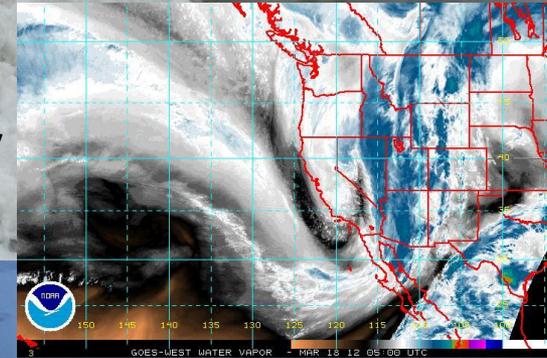
# Heavy Snow in lower Mountains



Alex Tardy  
Santa Ysabel Highway 79



Alex Tardy  
Julian



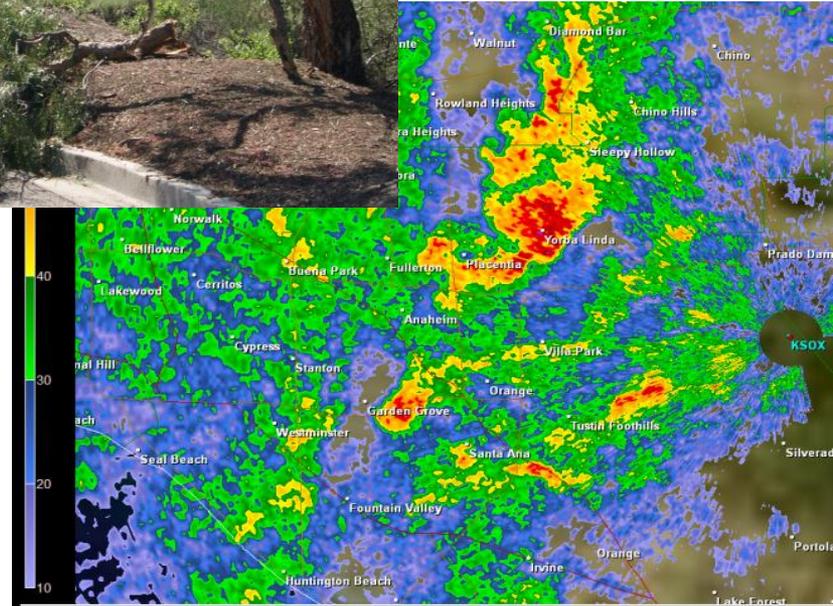
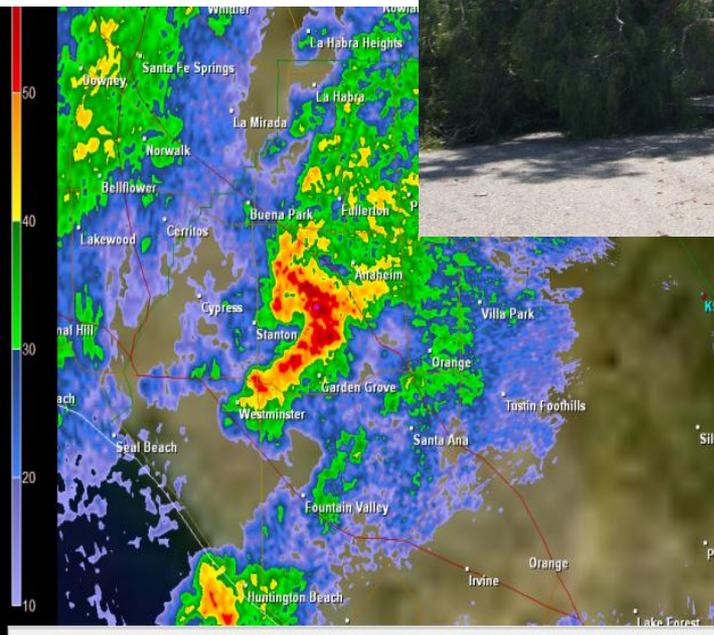
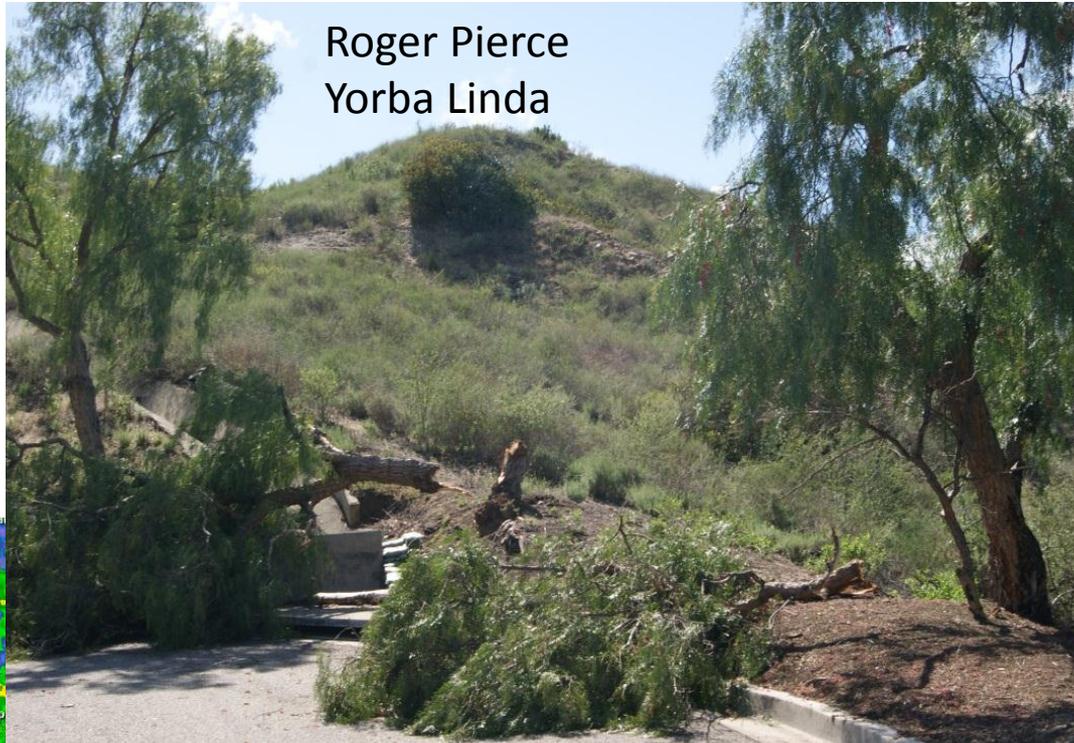
Alex Tardy  
Santa Ysabel



George Tate Pine Cove

# Severe storms on coast

## April 13, 2012



# August 29

## Lone early morning and evening thunderstorms



Stefanie  
Sullivan



Alex Tardy

# On pace for warmest year (2012) CONUS (exceeding 1998, 2006, 1999, 1935)

US: Hottest  
March and July  
ever  
350 All-time  
records broken

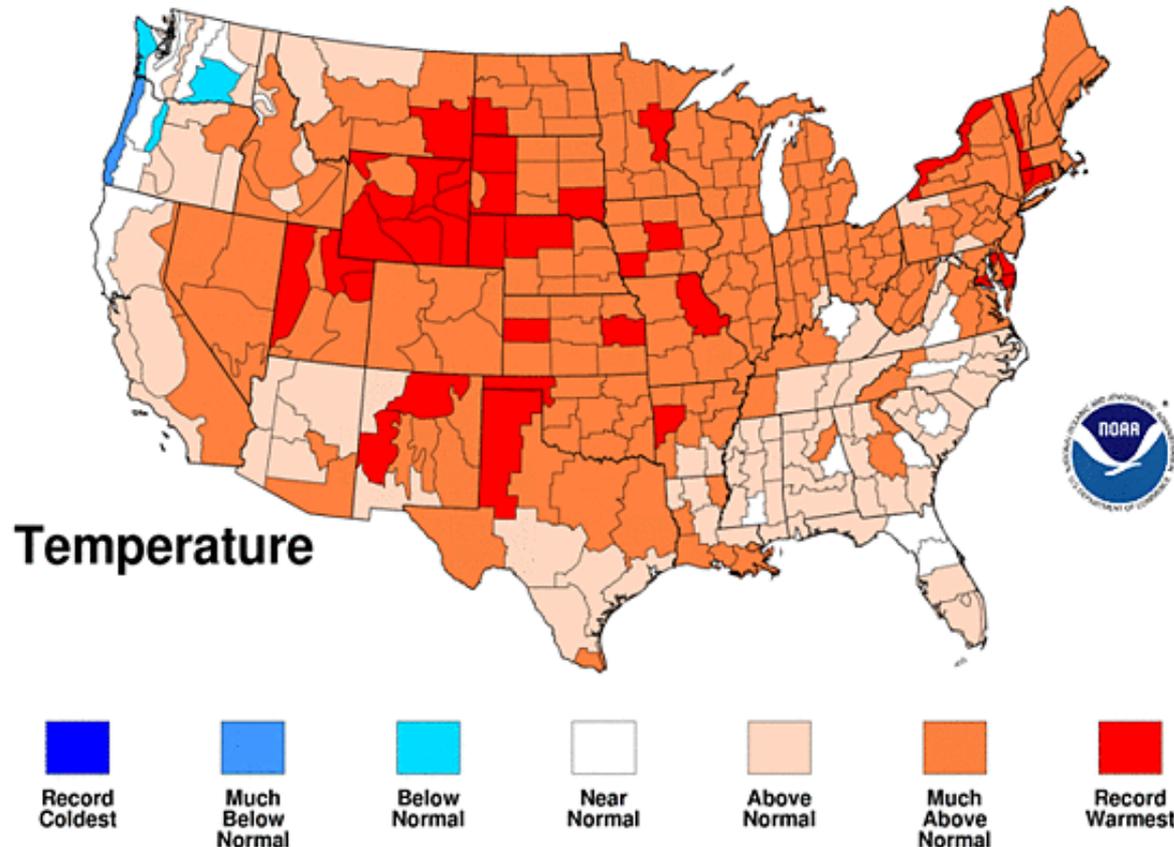
55.3 average temperature

## Jan - Nov 2012

National Climatic Data Center/NESDIS/NOAA

San Diego:  
August was 10<sup>th</sup>  
warmest  
September was  
5<sup>th</sup> warmest  
2012 is 20<sup>th</sup>  
warmest

Ontario:  
26 days this  
summer of 100+



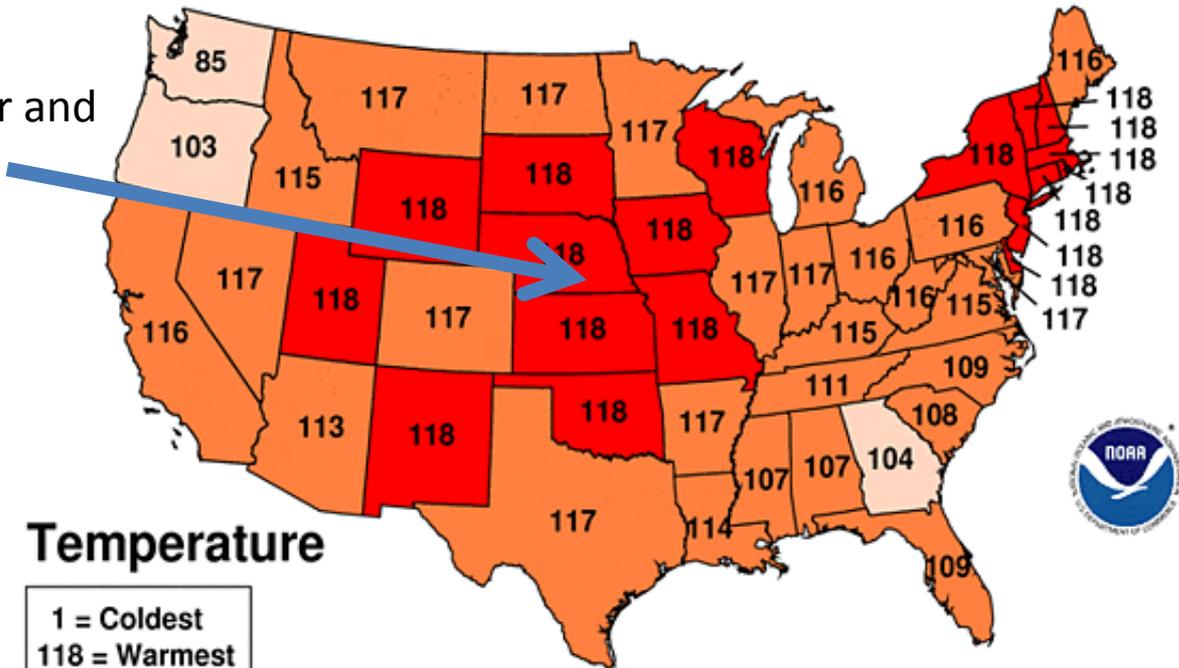
# State 2012 Ranks (118 years of data)

- Excessive Heat Wave for Inland Empire August 5 to 20 with temperatures 96 to 110 (107 August 6 and October 1 at ONT)
- Record Heat in Coachella Valley starting May and June (114 on May 31 at PSP)
- 100 to 109 for Coastal San Diego County on September 14-15

## January-November 2012 Statewide Ranks

National Climatic Data Center/NESDIS/NOAA

Warm Winter,  
Extreme Summer and  
Worse Drought

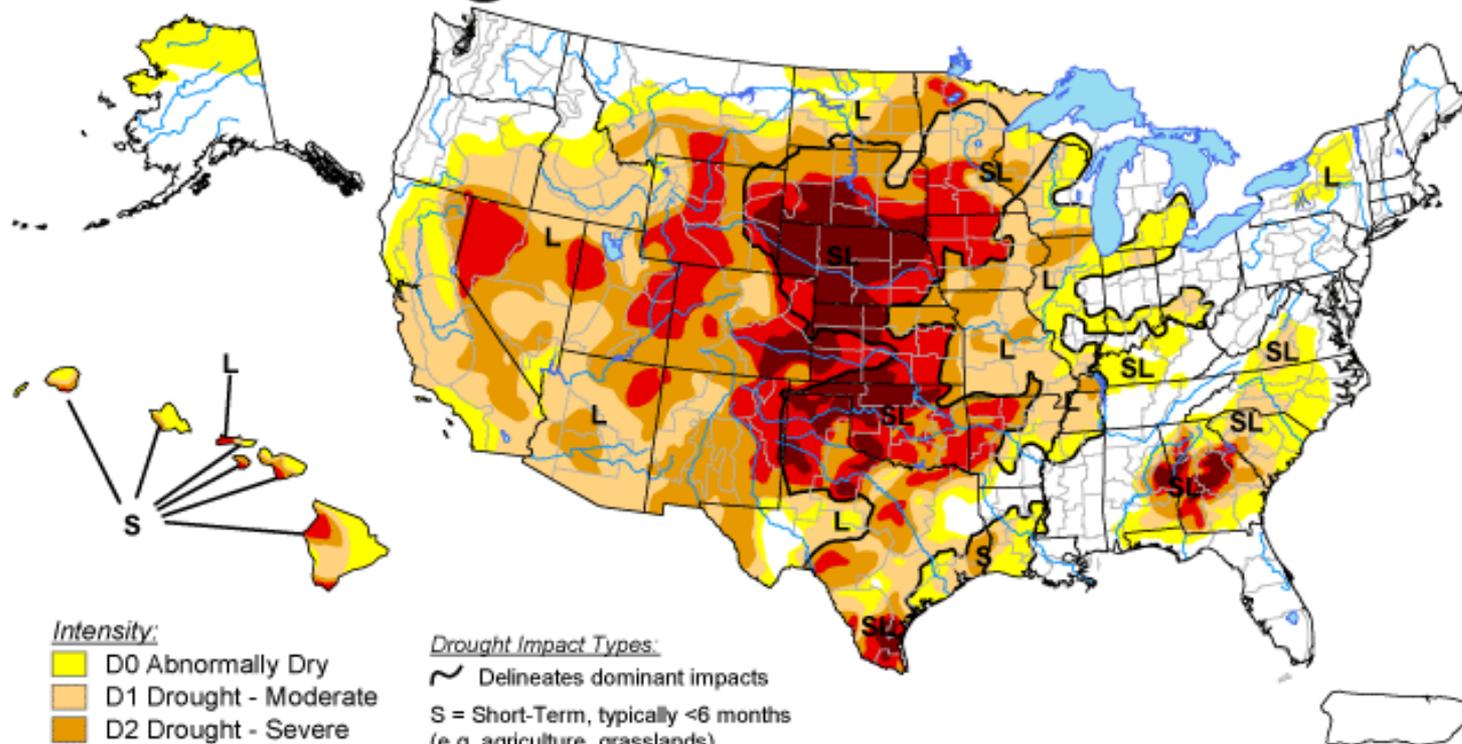


# 60 percent of US in drought worse since 1956

## U.S. Drought Monitor

November 20, 2012

Valid 7 a.m. EST



### Intensity:

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

### Drought Impact Types:

- Delineates dominant impacts
- S = Short-Term, typically <6 months  
(e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months  
(e.g. hydrology, ecology)

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

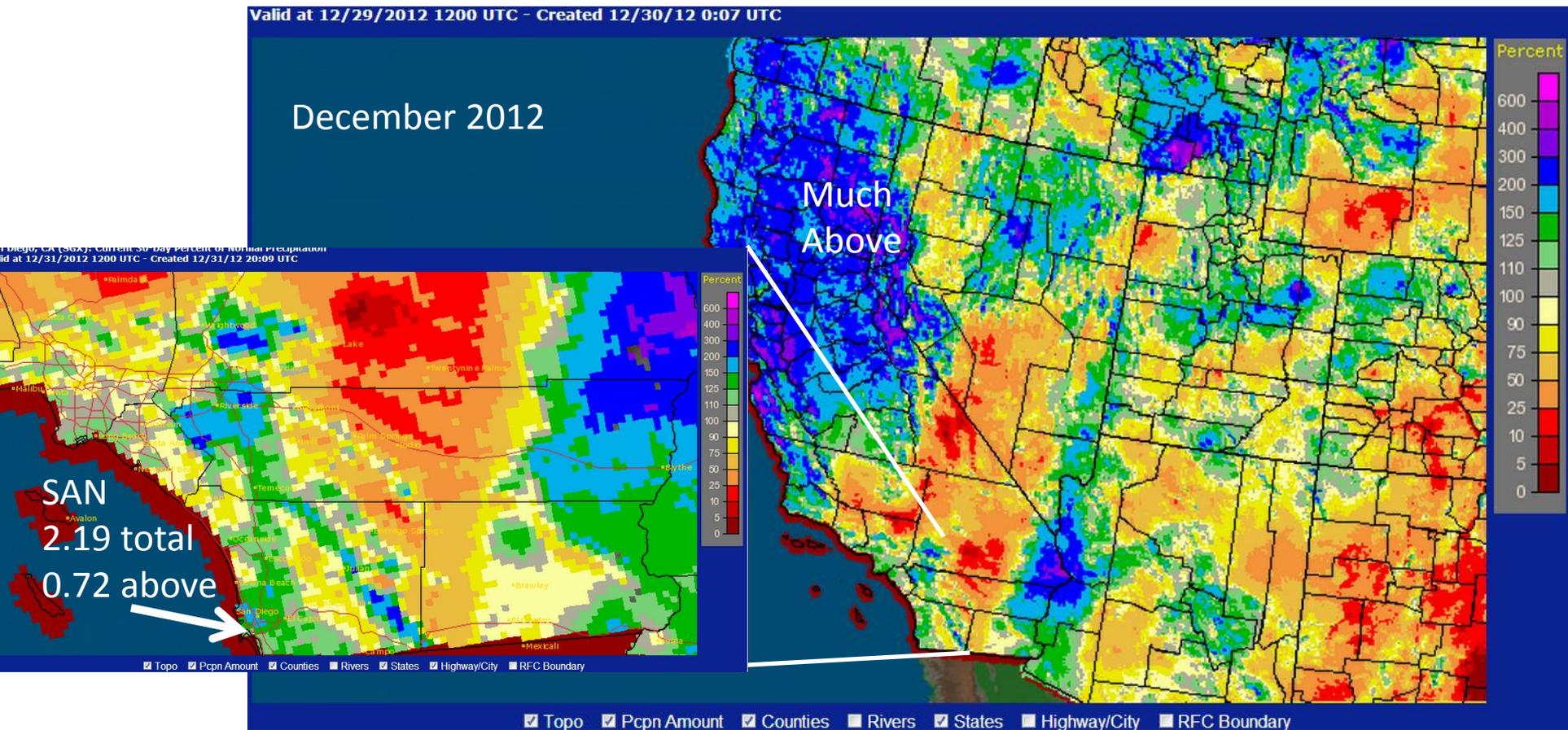
<http://droughtmonitor.unl.edu/>



Released Wednesday, November 21, 2012  
Author: Eric Luebehusen, U.S. Department of Agriculture

# December 2012 – wet month

*percent of normal precipitation*  
green/blue is wetter than normal



# Since October 2012, still dry overall

Imperial, CA (SGX): Current Water-Year (Oct 1) Percent of Normal Precipitation  
at 12/31/2012 1200 UTC - Created 12/31/12 19:55 UTC

