Climate and Drought Recovery

Drought.gov

Intensity:

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

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

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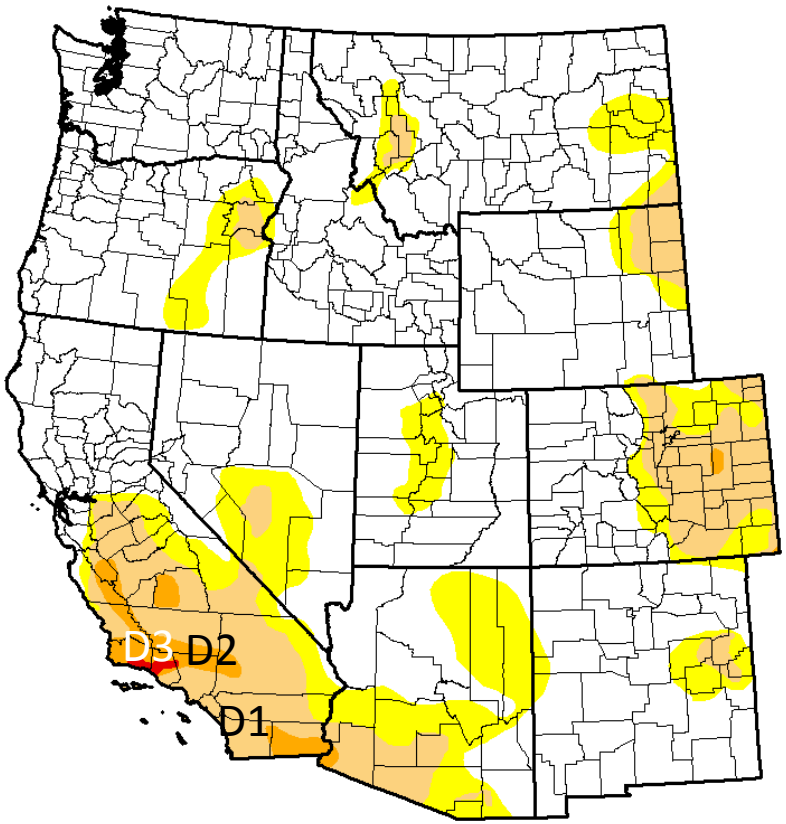
U.S. Department of Agriculture

http://droughtmonitor.unl.edu/

Weather-Ready Nation



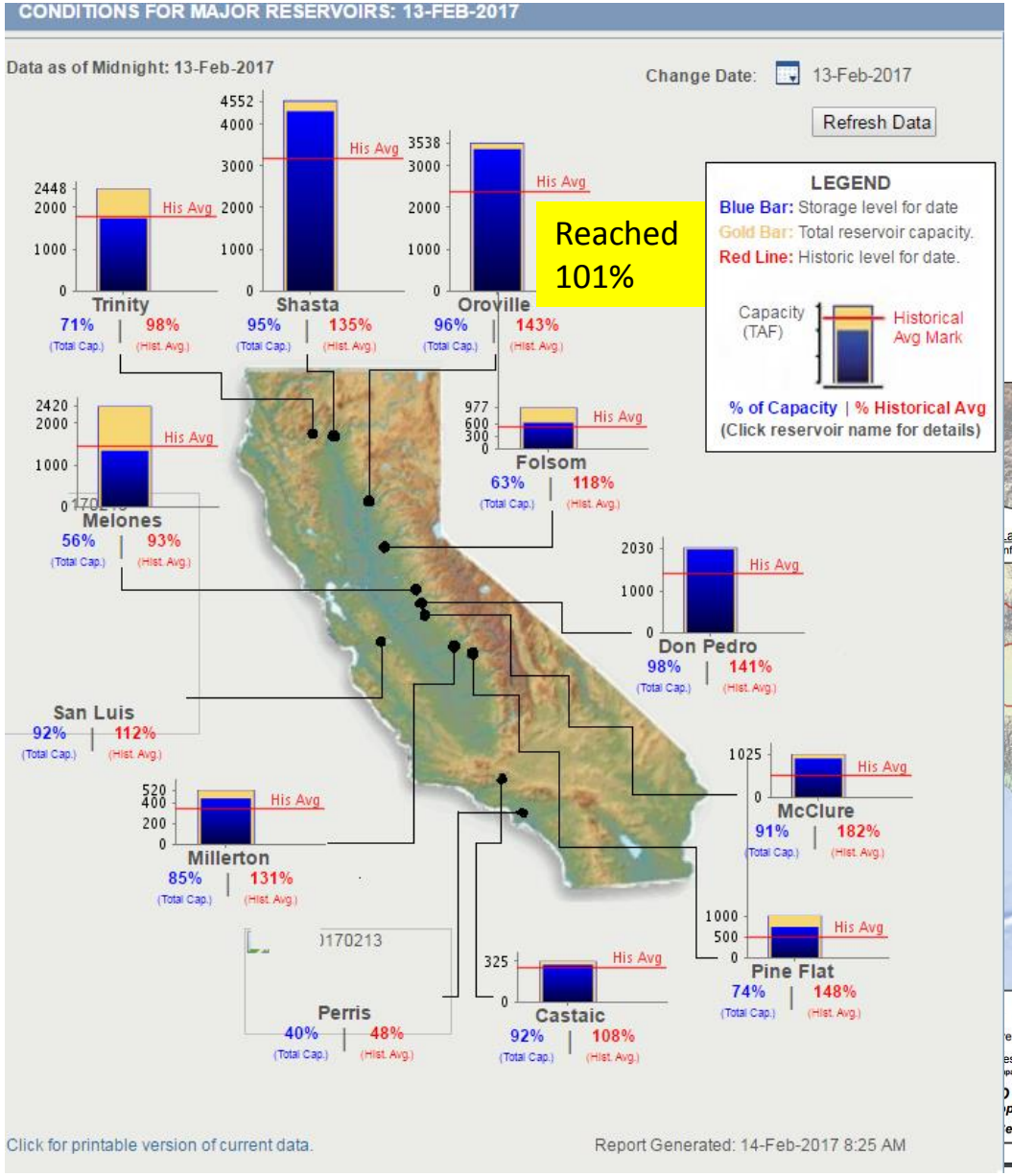
As of February 9, 2017

6 year precipitation since January 2011

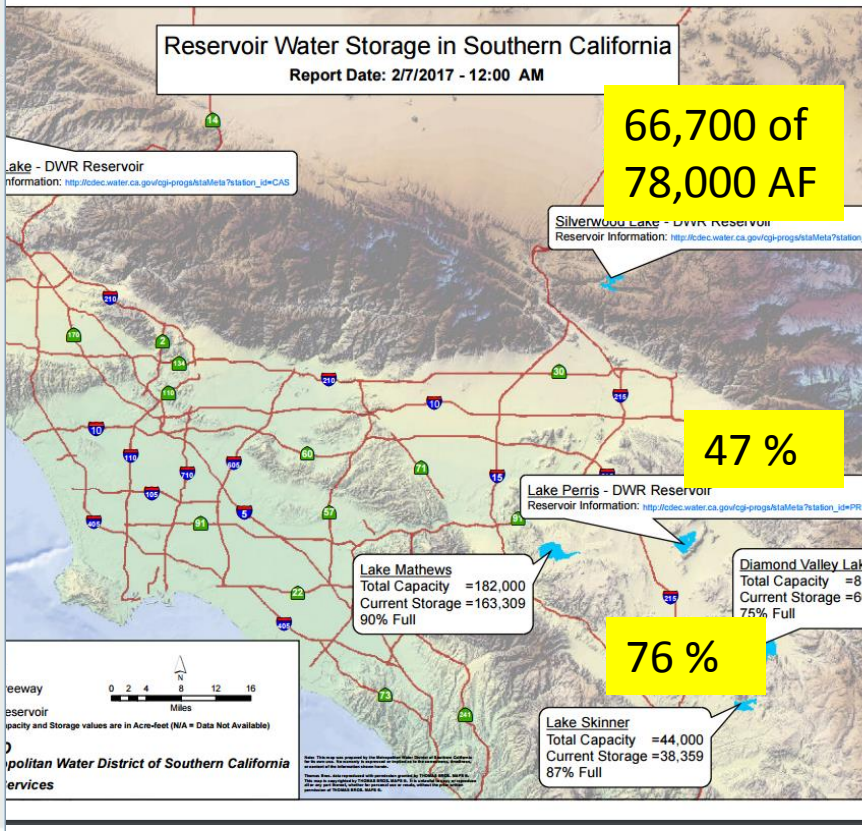
February 7, 2017

Station 5 year precipitation	Total Deficit Calendar Year	2015-16 % Annual	Current water year Since Oct 1	30-y Annual average	Lost precipitation
San Diego (SAN)		* Percent total water year average			
52.21	13.51 inches	8.18 or 79%	8.04 or 77% *	**10.34**	1 ½ season
Santa Ana (Fire stn)					
52.54	34.90 inches	5.19 or 38%	15.25 or 110%	**13.63**	2 ½ seasons
Riverside (Fire stn)					
47.84	14.02 inches	5.59 or 54%	11.26 or 109%	**10.33**	1 ½ seasons
Palomar Mtn					
144.36	47.46 inches	18.59 or 62%	28.95 or 96%	**30.20**	1 ½ seasons
Palm Springs					
20.85	9.84 inches	3.69 or 76%	5.32 or 110%	**4.83**	2 seasons

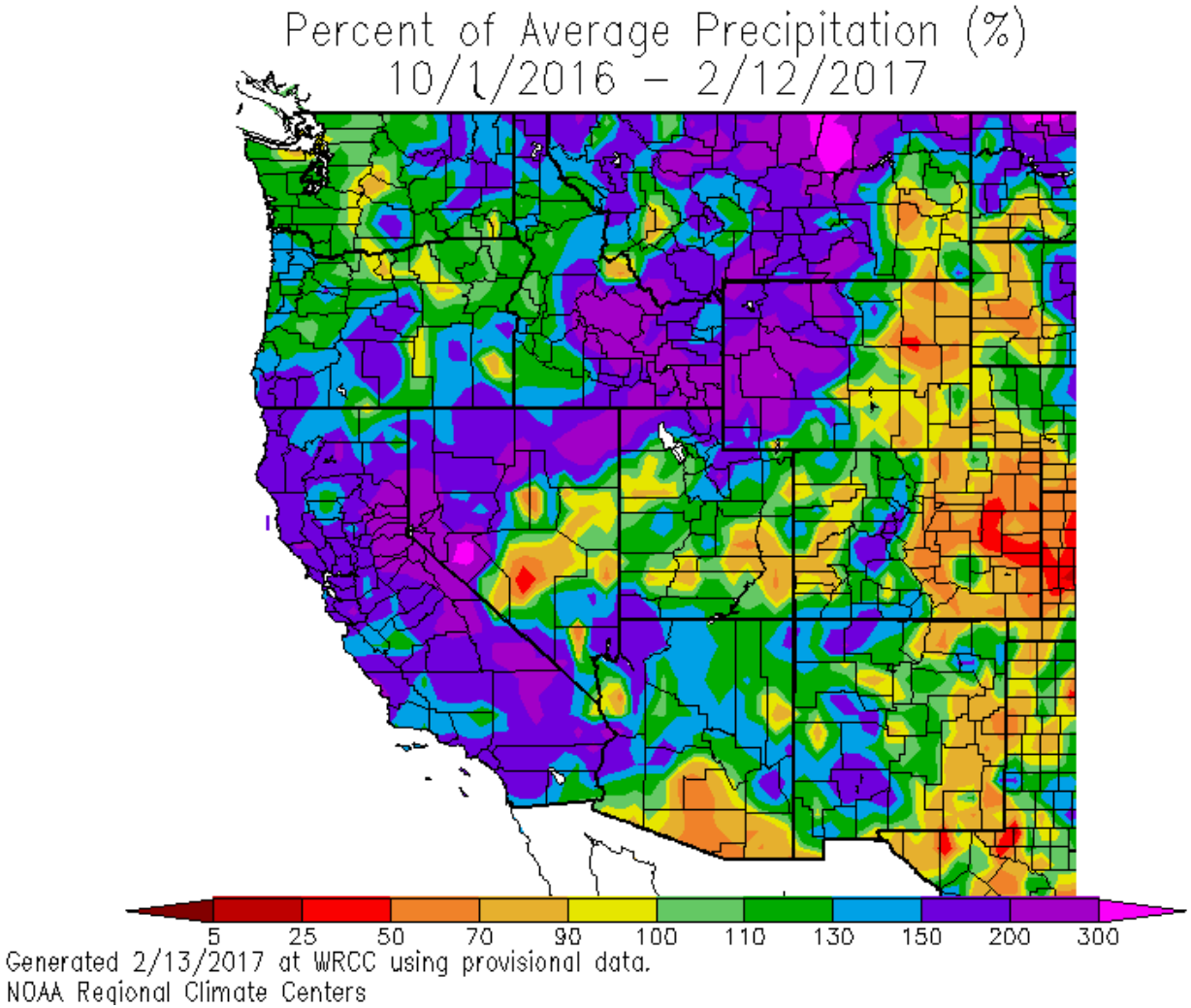
February 2017 levels

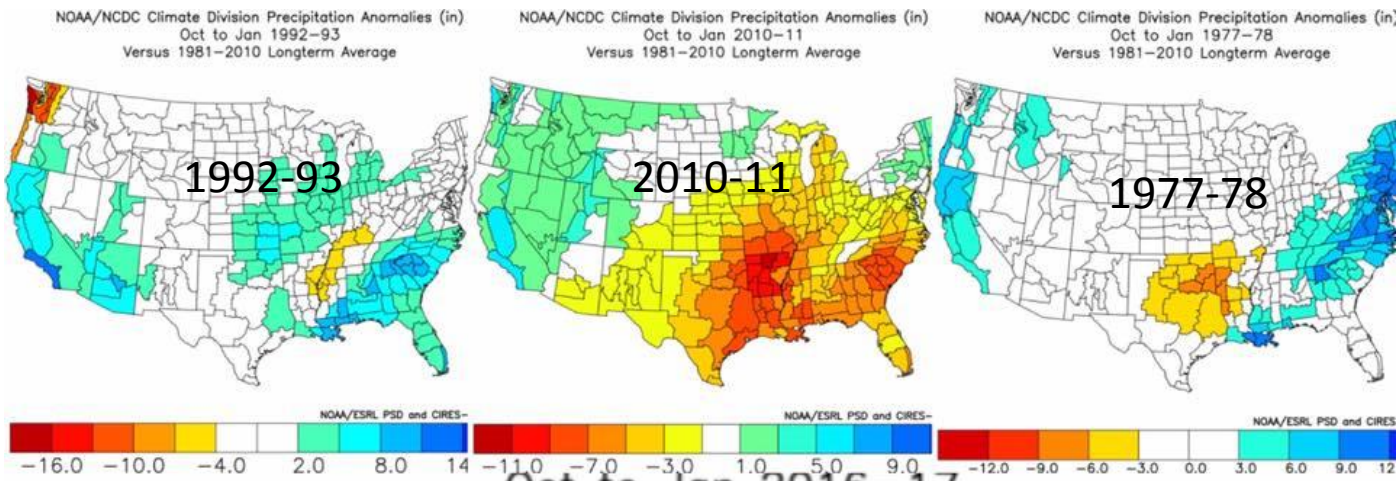


Oroville increase 700,000 acre feet in one week – 42 % to 80 % full from December to January



Percent of Normal Precipitation Since October 1

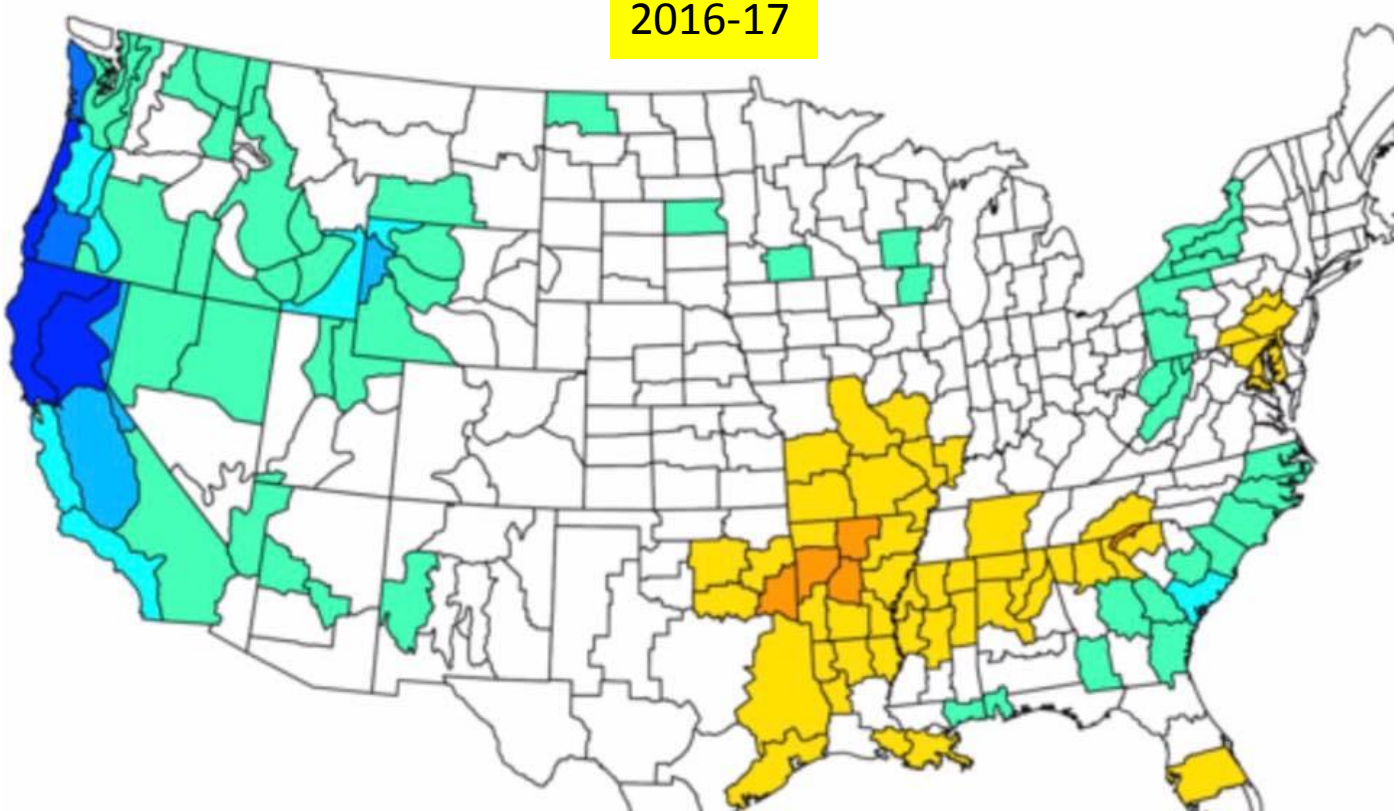




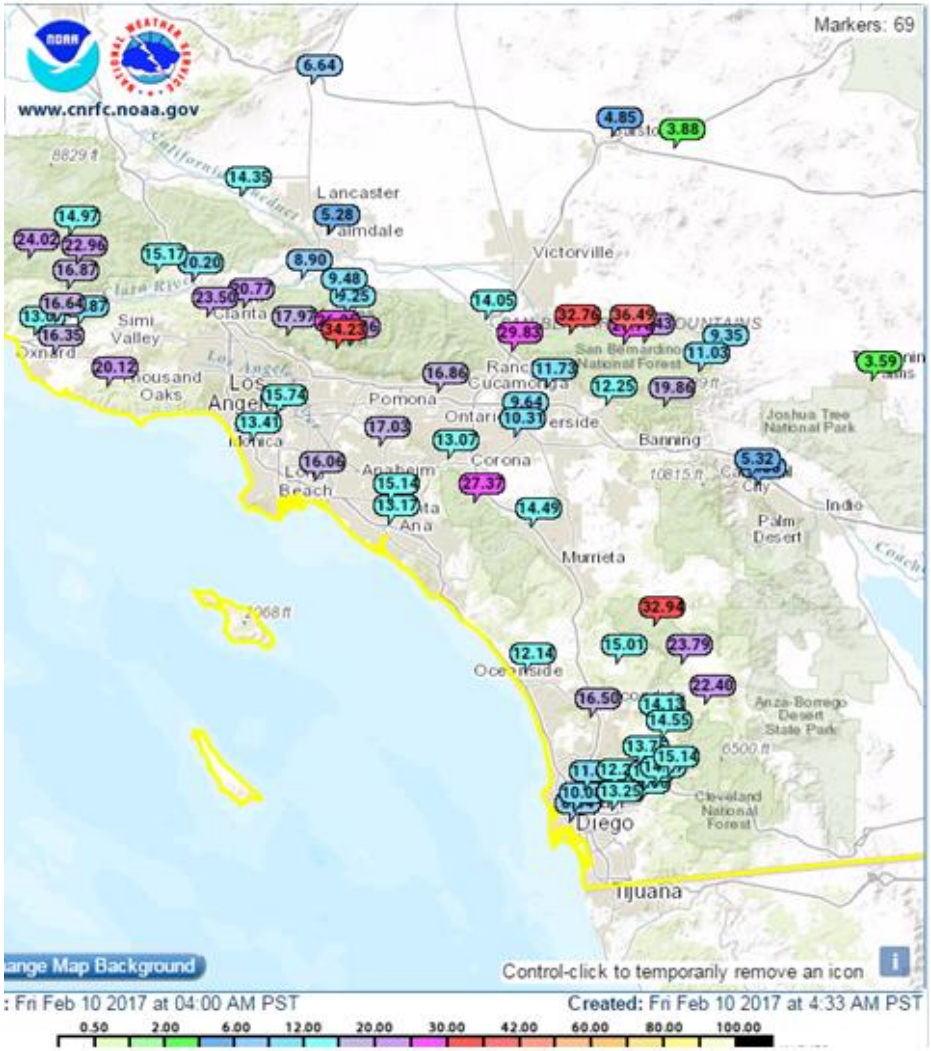
Oct to Jan 2016–17
Versus 1981–2010 Longterm Average

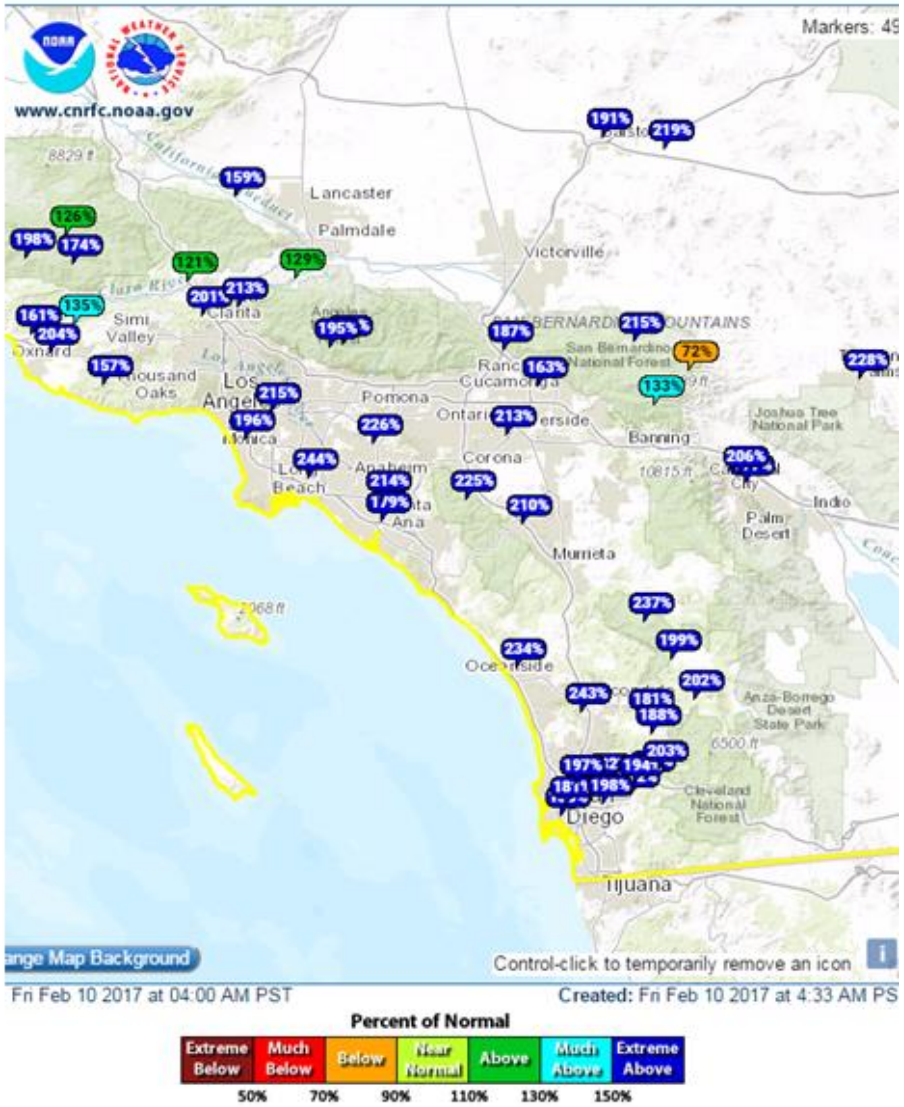
2016-17

Very Wet

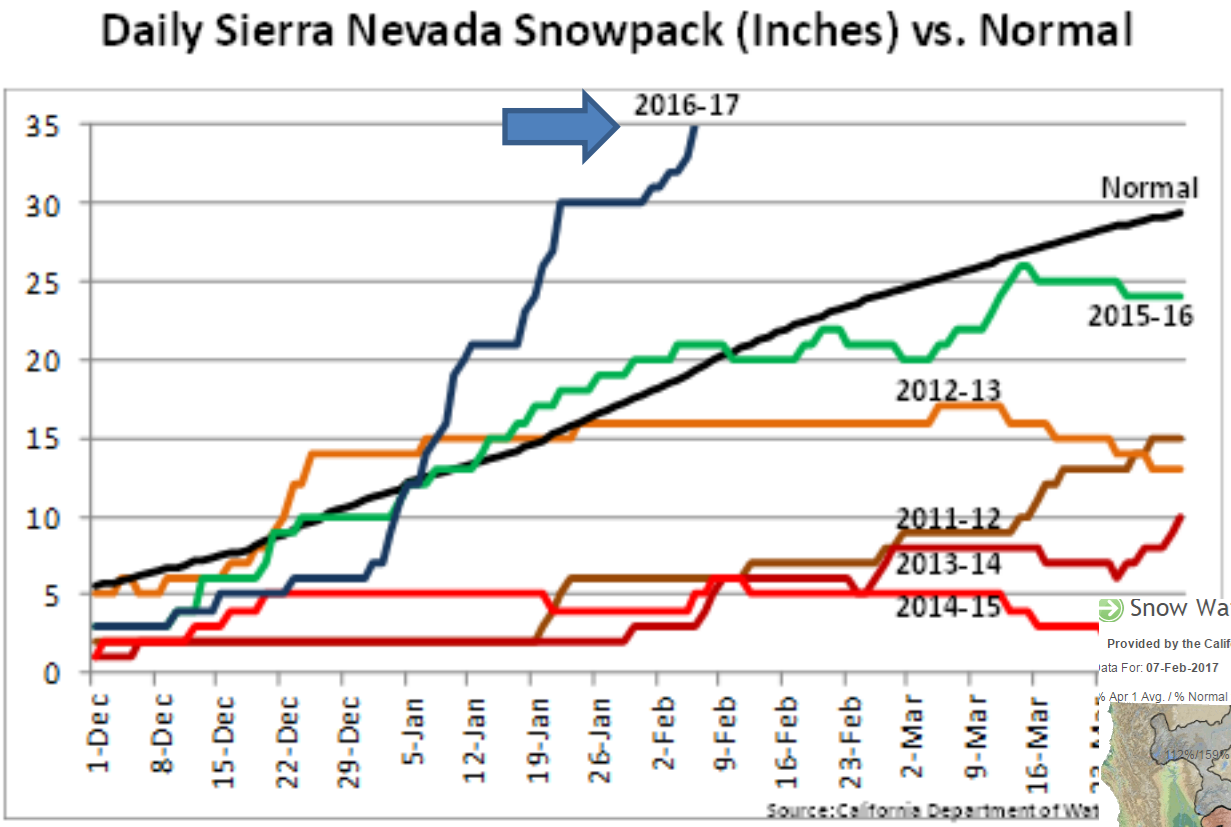


Socal Precipitation and Percent of normal since October 1, 2016





Snowpack in Sierra Nevada



150-200 percent normal

NORTH	
Data For: 07-Feb-2017	
Number of Stations Reporting	30
Average snow water equivalent	31.1"
Percent of April 1 Average	112%
Percent of normal for this date	159%

CENTRAL	
Data For: 07-Feb-2017	
Number of Stations Reporting	42
Average snow water equivalent	37.1"
Percent of April 1 Average	127%
Percent of normal for this date	184%

SOUTH	
Data For: 07-Feb-2017	
Number of Stations Reporting	29
Average snow water equivalent	35.9"
Percent of April 1 Average	133%
Percent of normal for this date	203%

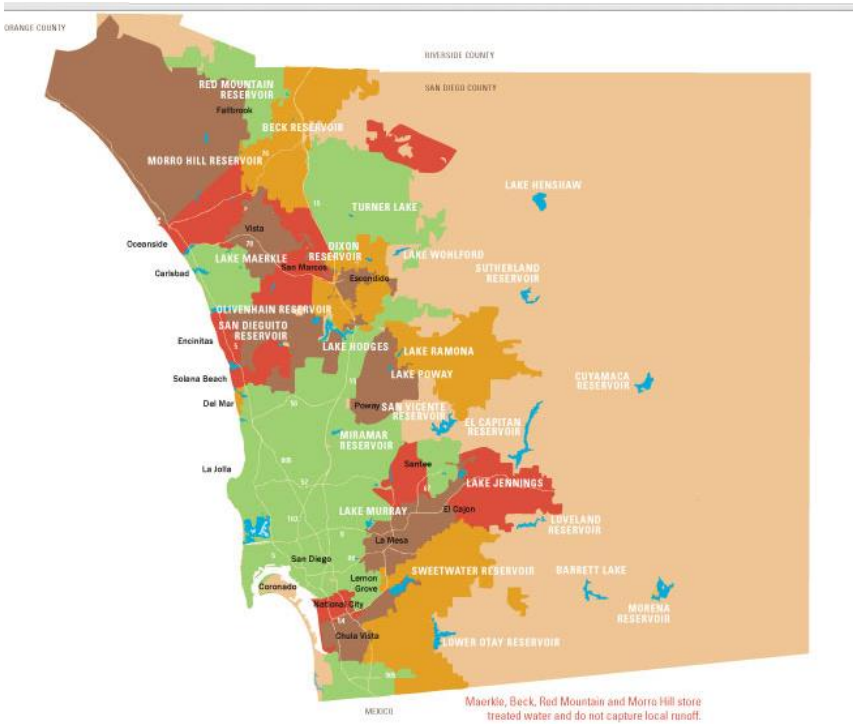
STATEWIDE SUMMARY	
Data For: 07-Feb-2017	
Number of Stations Reporting	101
Average snow water equivalent	35.0"
Percent of April 1 Average	124%
Percent of normal for this date	182%

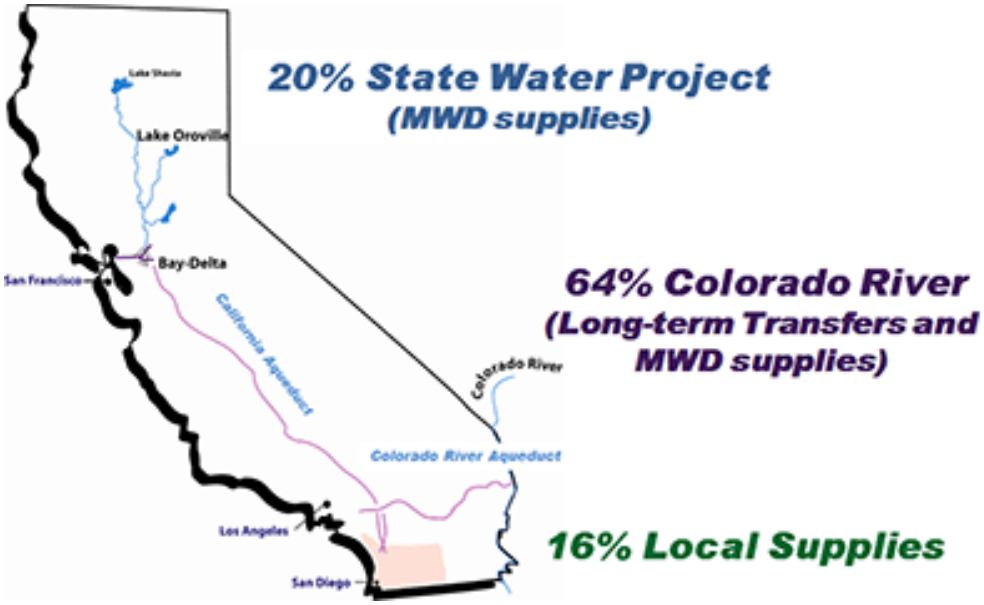
San Diego Water

Totals	City	**569,020**	**299,499**	**53 %**	**2,993 last week**
Totals	Water Authority	**745,971**	**376,900**	**50 %**	**47,900**

370,903

Change From January 1

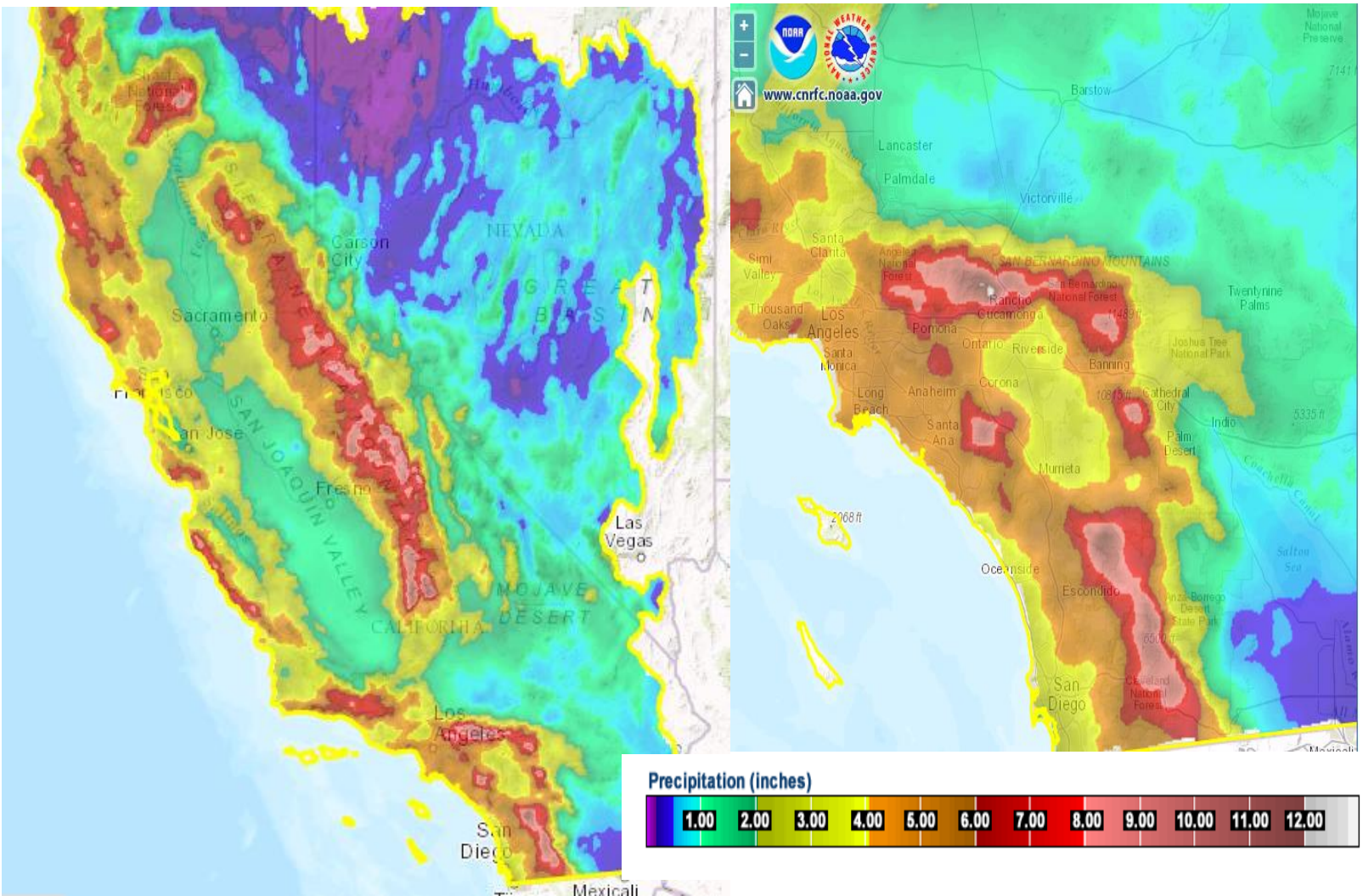




See more at: http://www.sdcwa.org/reservoirs#sthash.RouSQX2C.dpuf

High Wind and Heavy Precipitation with Flooding January 19-23, 2017

January 18 to 24, 2017 precipitation mapped



Top Precipitation Reports

Location	Precipitation	Elevation
Lytle Creek	12.61	2800
Palomar Observatory	11.36	5560
Harding Canyon Silverado	11.18	4200
Palomar Birch Hill	10.53	5600
Julian	10.47	4200
Silverado Canyon	10.08	2900
Lake Cuyamaca	9.95	4600
Pine Cove	9.91	6300
Descanso	9.19	3700
Mt Woodson	8.83	1720
Whitewater	8.35	2200
Rainbow camp	7.28	1500
Chino Hills	7.05	988
Oso Creek	6.93	20
Campo	6.56	2600

Location	Precipitation	Elevation
Yorba Park	6.10	300
Camp Pendleton Fallbrook	6.07	876
Garden Grove	5.94	80
Escondido	5.93	640
Modjeska	5.91	1260
Temecula	5.91	1180

Location	Precipitation	Elevation
Rialto	5.55	1400
Valley Center	5.46	1300
Anaheim	5.15	5
Rialto	5.55	1400
Warner Springs	5.09	3000
Ramona	5.07	1420
Chino Airport	5.05	650
Huntington Beach	4.96	20
San Juan Capistrano	4.96	75

- Burns Canyon 99
- Palomar Mtn 93
- Campo 76
- Otay Mtn 75
- Volcan Mtn 70
- Mateo Ridge Camp Pen 70
- San Miguel 69
- Lake Mathews 67
- Border Field SP 64
- Fremont Canyon 63
- Jamul and Descanso 61
- Sierra Peak 61

Top wind gusts
January 20

Elfin Forest and Campo	60
Lake San Marcos	60
Imperial Beach NAS	59
Temescal	58
Barrett Junction	57
Oceanside Jetty	56
Del Mar	55
Ramona	55
Dana Point	54
Scripps Pier	54
Victorville Airport/Big Bear Airport	53
Brown Field Airport	53
Mission Beach and North Island NAS	52
Corona Del Mar	51
Julian and Mission Trails	51
Pine Cove	51
San Diego Airport	49
Alpine	48
Santa Ana Airport John Wayne	48
Oceanside Airport	47
Ramona Airport	46

January 20, 2017

- 125 tree service call in City of San Diego
- 29 high water rescues in City of San Diego
- San Diego River reaches 12 feet
- Embarcadero many cars left in high water
- City of Chula Vista with over 50 downed trees
- 1.2 million in clean up for Chula Vista

January 20 and 22, 2017

- 2 event total of 300 trees downed in San Diego county
- 5 high water rescues in San Diego county (2 fatalities) on January 22

Flow in the San Luis Rey River!

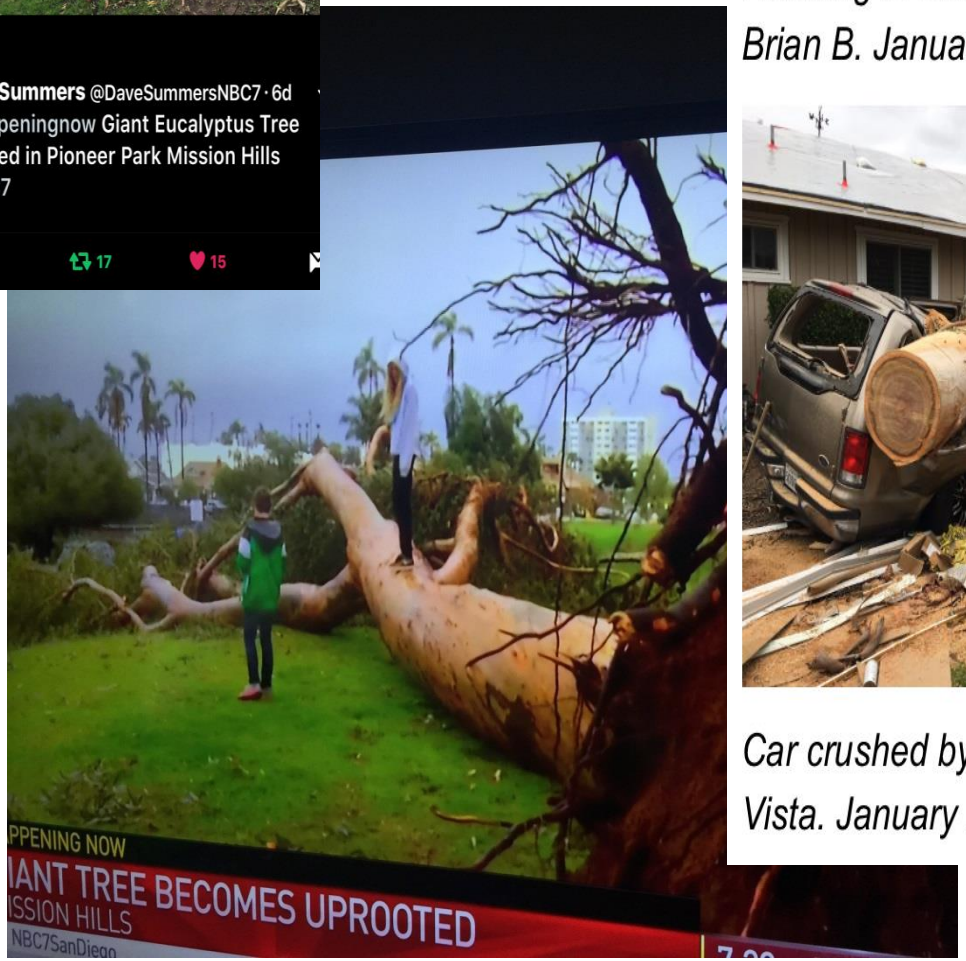
Rancho Santa Fe

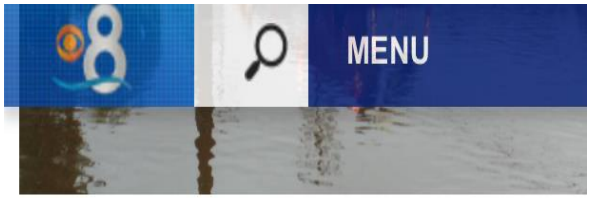
Tree falls through home

Alex Tardy

Dave Summers @DaveSummersNBC7 · 6d
#Happeningnow Giant Eucalyptus Tree downed in Pioneer Park Mission Hills #NBC7

2 17 15





Flooding in Grantville. Photo courtesy Brian B. January 20, 2017.

Car crushed by downed tree in Vista. January 20, 2017.

Roof damage in Imperial Beach. January 20, 2017.

Crews work to keep a wall of mud from running into homes in Santee. January 20, 2017.

Water rescue at Carroll Canyon Road. January 20, 2017.

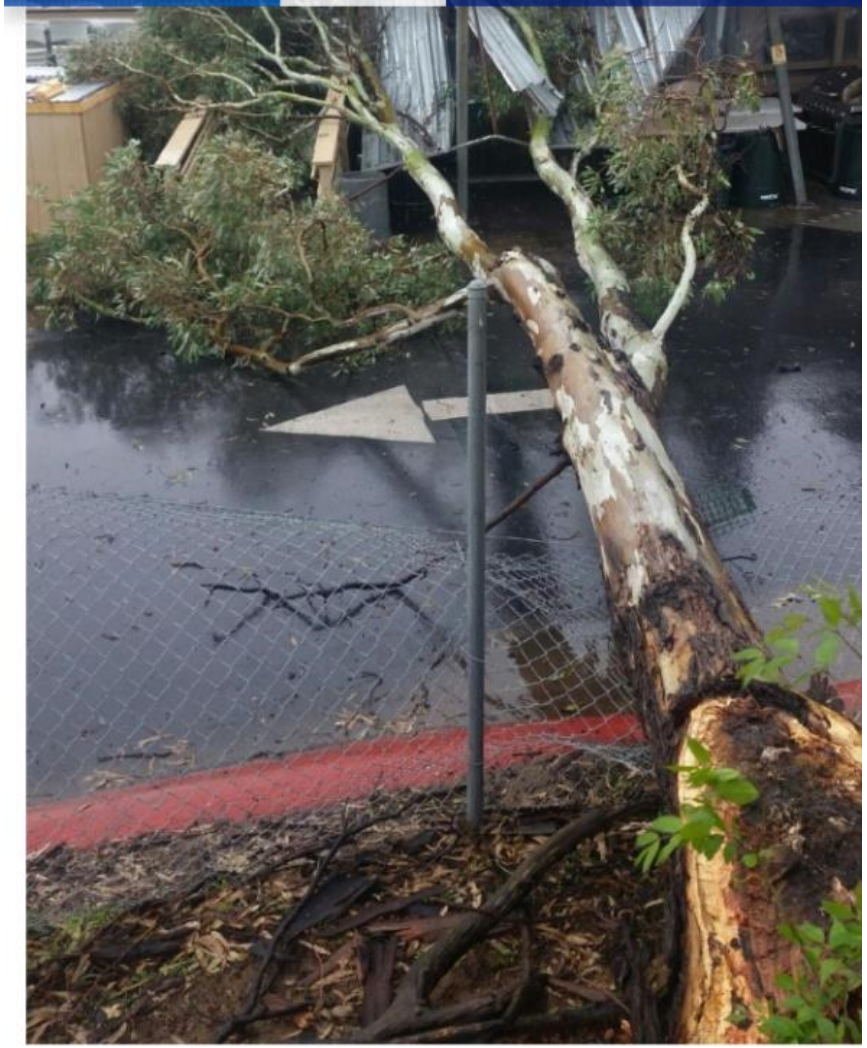
MENU

Downed tree at UC San Diego late in the morning Friday, January 20, 2017. No injuries were reported.

Cars stranded in a creek in Sorrento Valley. January 20, 2017

MENU

Downed tree at UC San Diego late in



Downed tree in Alpine. January 20, 2017.

Rainbow seen in Mira Mesa. Provided by K. Weiner.

Tree down blocking driveway at Alta Vista Apartments in Escondido. Photo courtesy Dana C.

Imperial Beach wind damage

Encinitas

John Ugrob

Encinitas
tree and traffic signal light

Extensive tree damage in San Diego

125 tree service calls in San Diego

Friday media reports

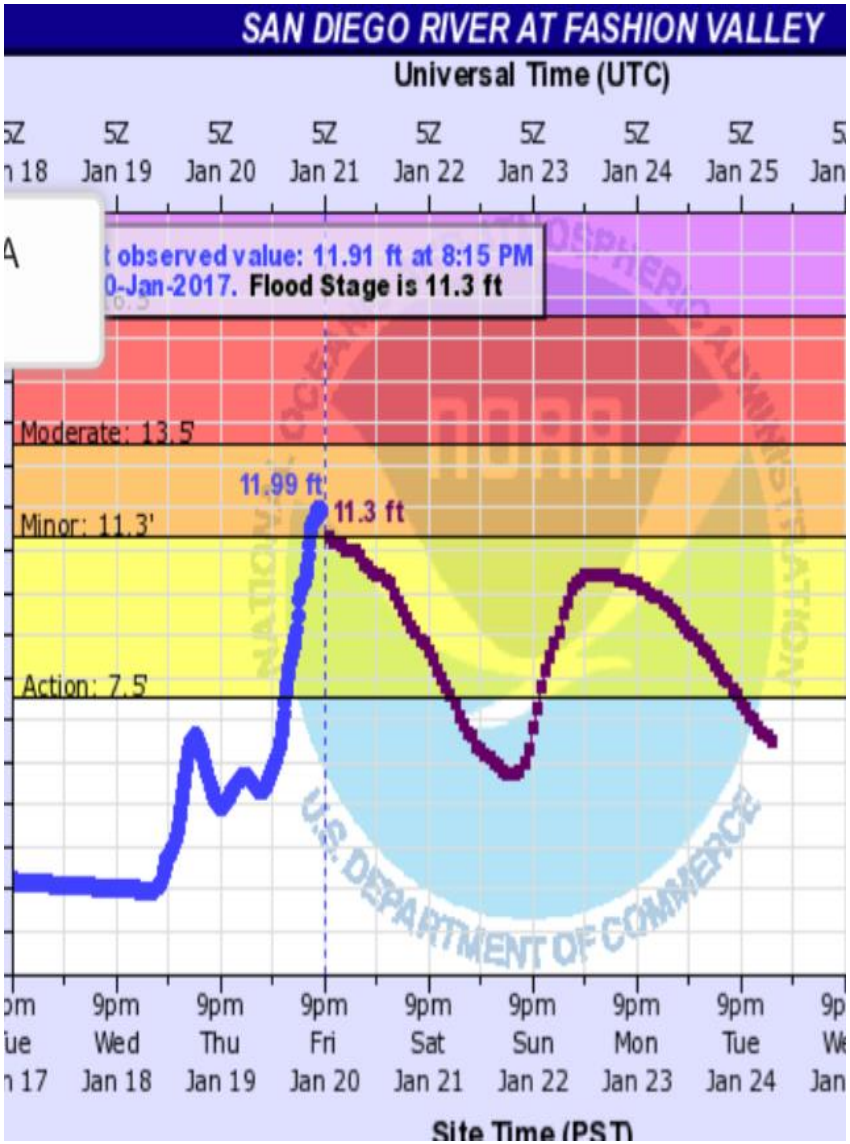
Chula Vista - Friday, January 20

Jim Geering

Caltrans Highway 243 and 74

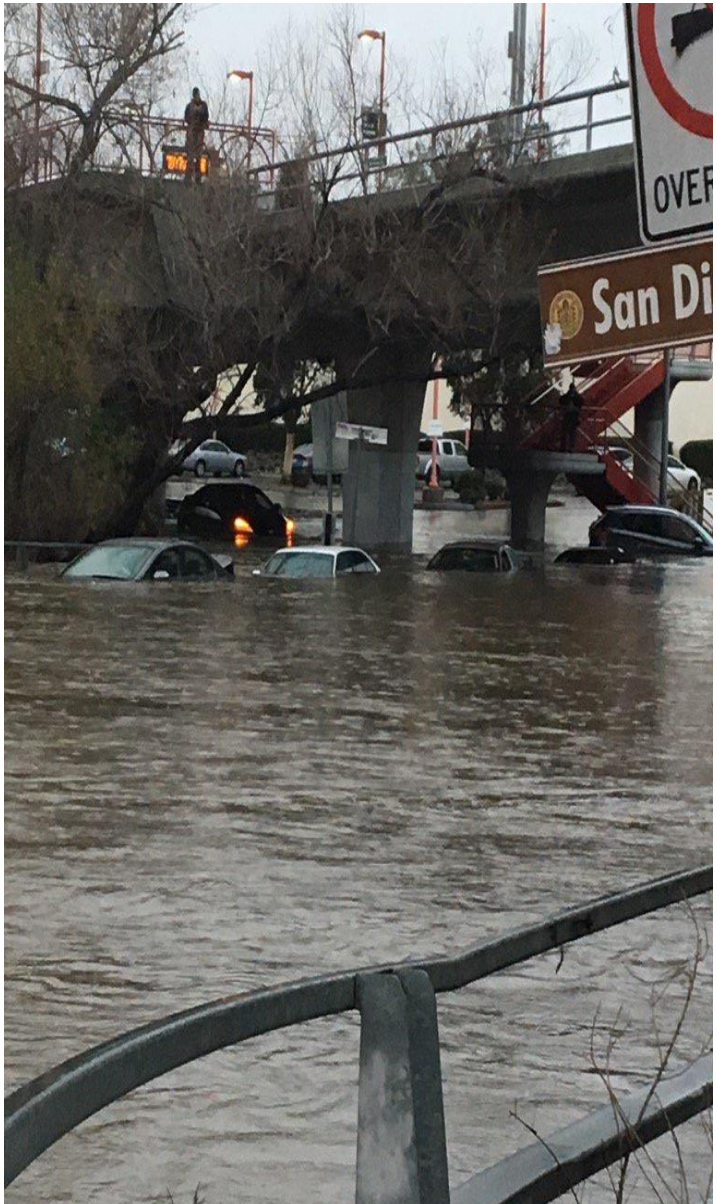
John Hubbs

San Diego River at peak January 20, 2017 evening



San Diego River

River reached 12 feet



https://www.youtube.com/watch?v=Tw_jr9S1fk4

Murrieta CA

High water rescue Rainbow on January 22

January 23, 2017

Poway – Hilleary
Park – Alex Tardy

Ramona

Robert Denny shared his **post.**
3 hrs

Santa Maria creek, Ramona

Robert Denny
5 hrs ·

Came home to this

1.1K Views

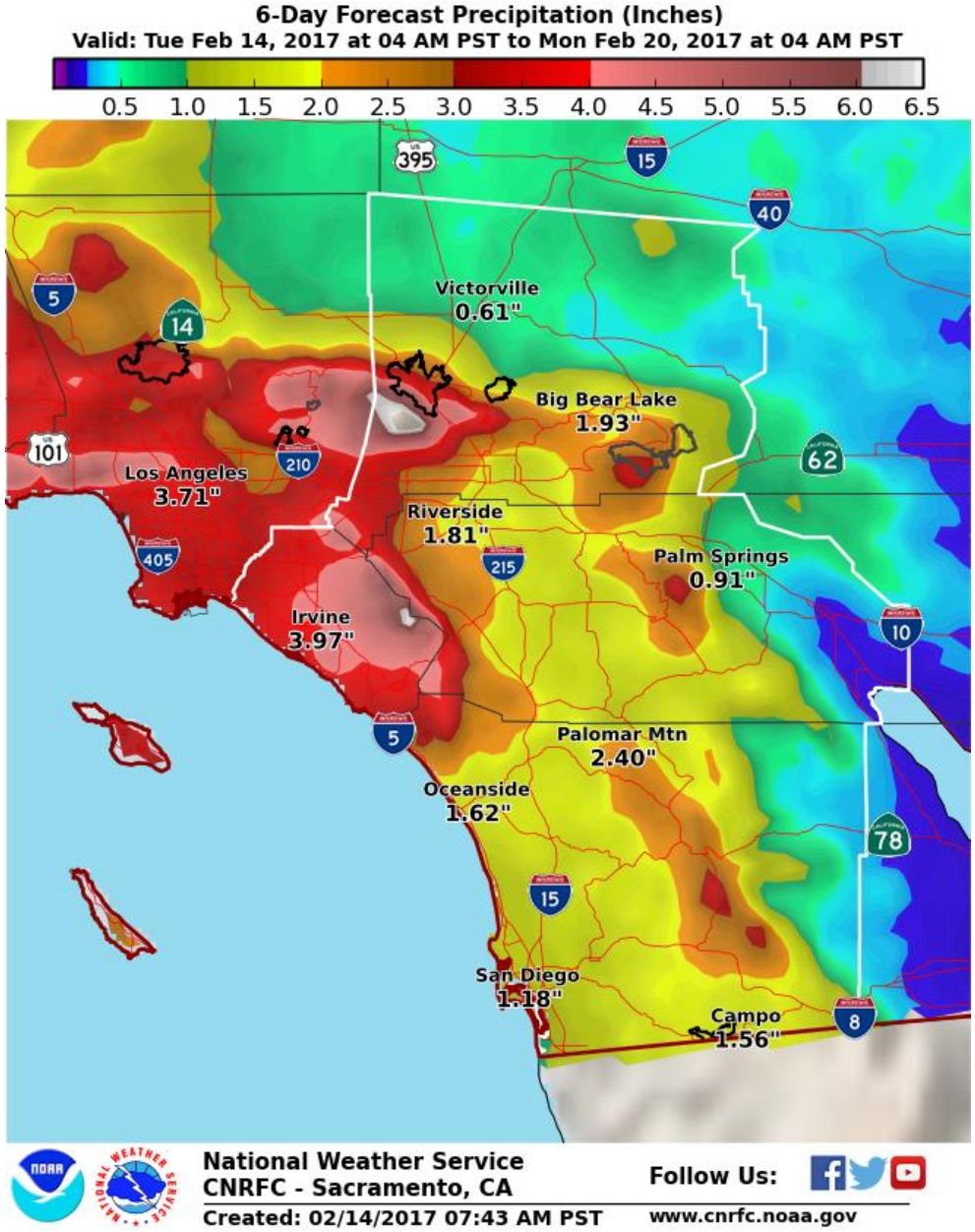
You would think it snowed here in Oceanside!

High Surf – Big Waves
Ocean Beach pier

Newport Beach runoff debris

Rainfall Friday February 17

Wind gusts 55 to 65 mph on Friday



Resources

http://droughtmonitor.unl.edu/

https://www.climate.gov/

http://www.wrcc.dri.edu/anom/

http://cdec.water.ca.gov/

http://water.weather.gov/precip/

http://w2.weather.gov/climate/index.php?wfo=sgx

http://www.mwdh2o.com/

http://www.sdcwa.org/reservoirs

http://www.watersmartsd.org/programs

WEATHER-READY NATION™