

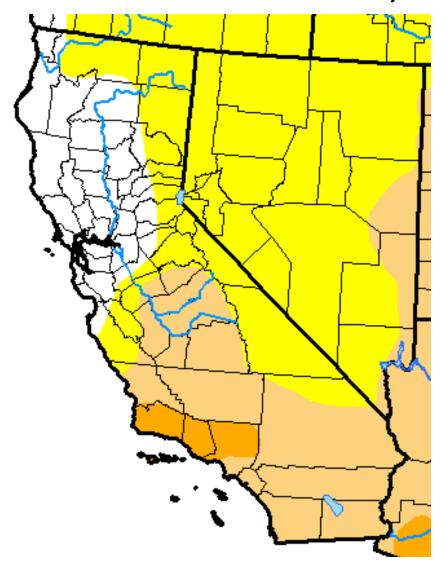
Climate and Drought Update

Julie Kalansky Scripps Institution of Oceanography, UCSD

San Diego, NIDIS Meeting February 7, 2018



Drought Monitor Feb. 1, 2018



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.

Author:

Brian Fuchs National Drought Mitigation Center





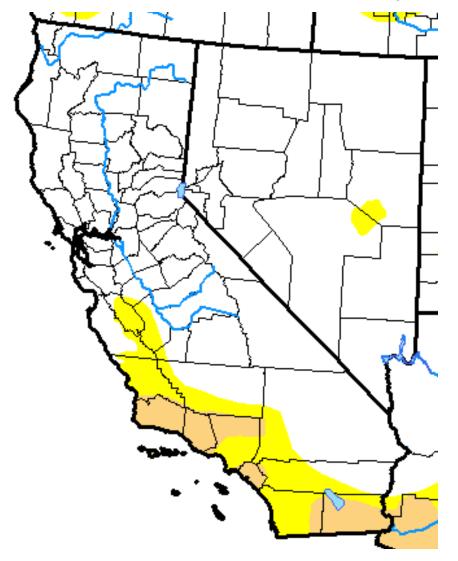




http://droughtmonitor.unl.edu/

Drought Monitor

Oct. 3, 2017



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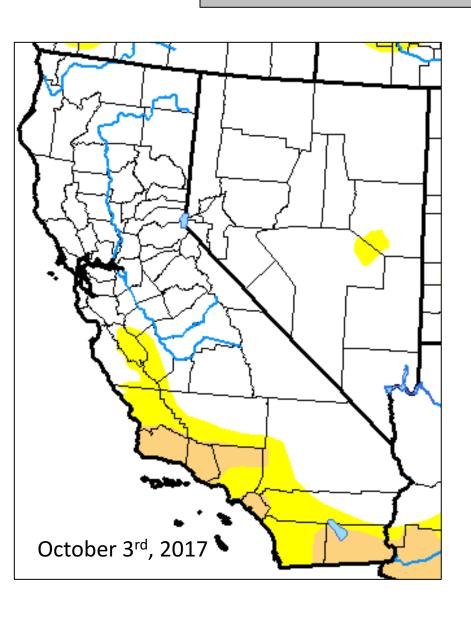


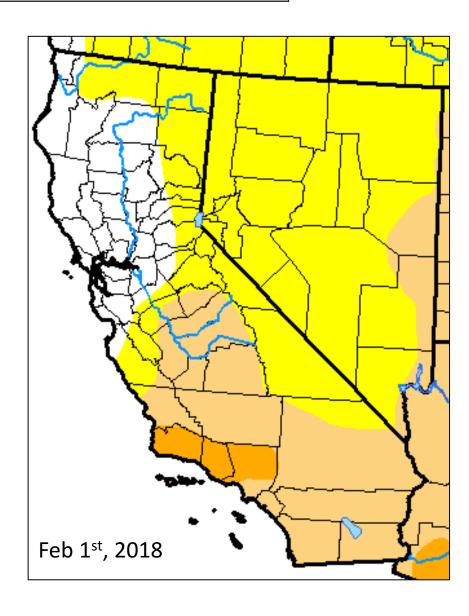




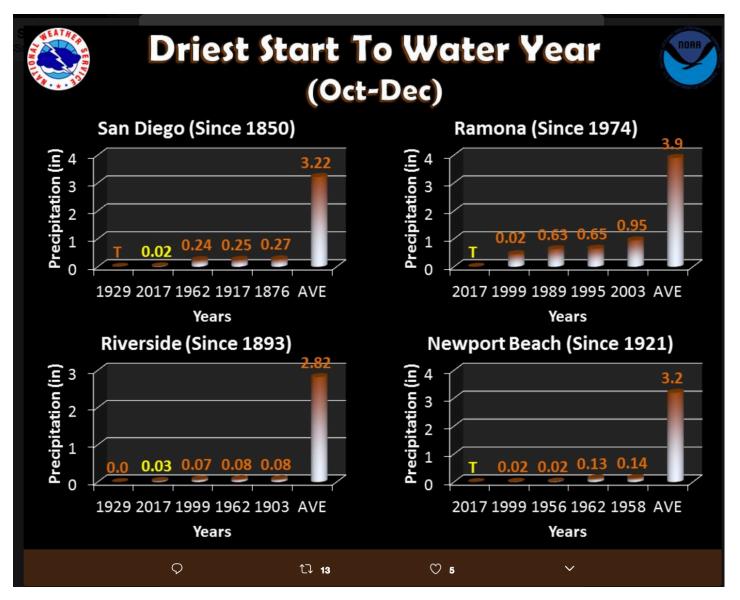
http://droughtmonitor.unl.edu/

What happened?

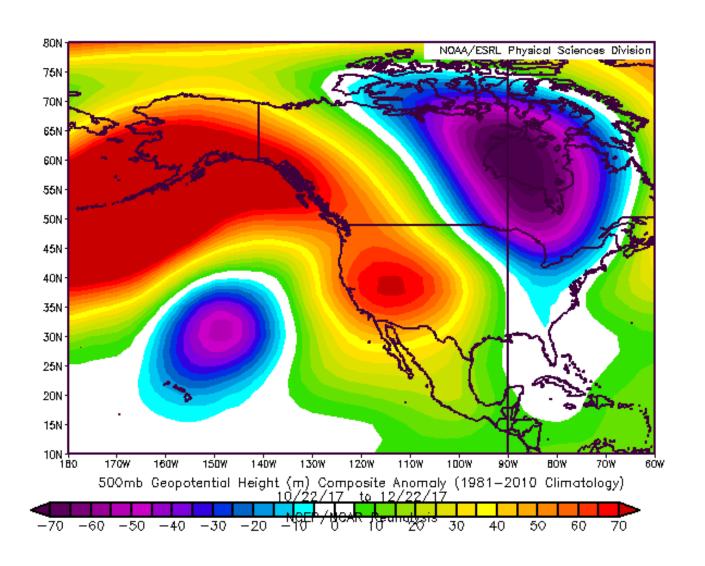




Precipitation – DRY Start



Why So Dry?



Southern CA's One and Only Jan 8th-10th



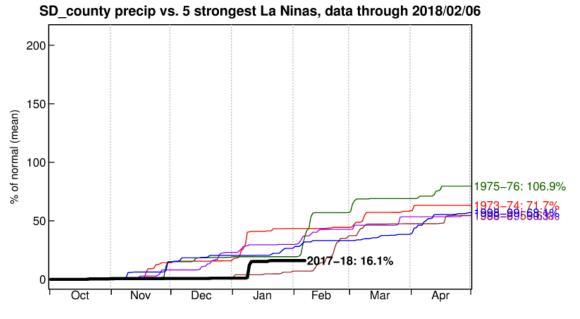
 O.50
 1.00
 1.50
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 4.00
 4.50
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 6.00

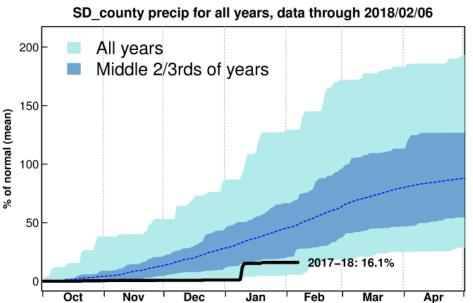
Southern CA's One and Only Jan 8th-10th

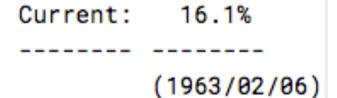


 O.50
 1.00
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 3.50
 4.00
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 5.00
 5.50
 6.00

Where are we now?







Rec_low: 5.6%

Typ_low: 27.6%

Mean: 48.3%

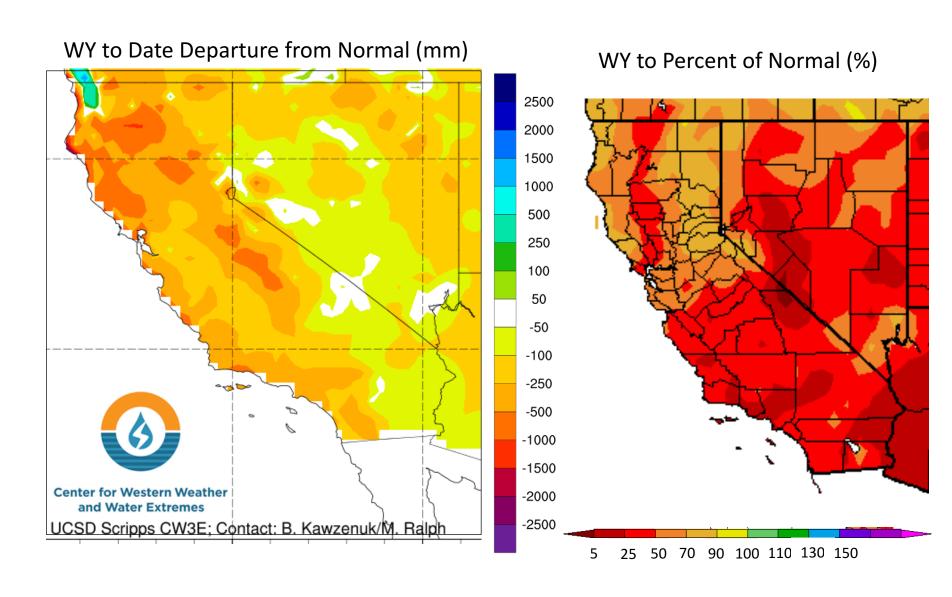
Typ_high: 70.0%

Rec_high: 129.4%

(1993/02/06)

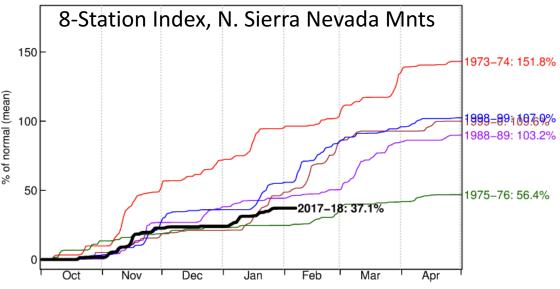
http://cirrus.ucsd.edu/~pierce/sdprecip/

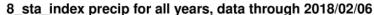
What about the rest of the state?

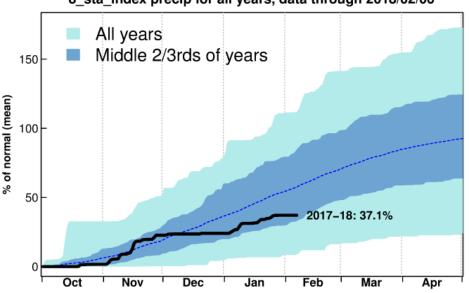


Where are we now?









Current: 37.1%

(2014/02/06)

Rec_low: 8.8%

Typ_low: 32.9%

Mean: 57.4%

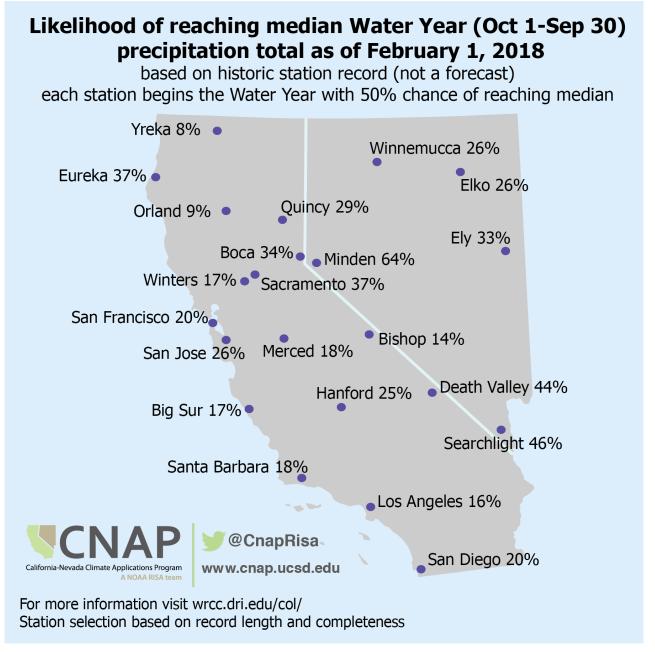
Typ_high: 84.5%

Rec_high: 111.6%

(1997/02/06)

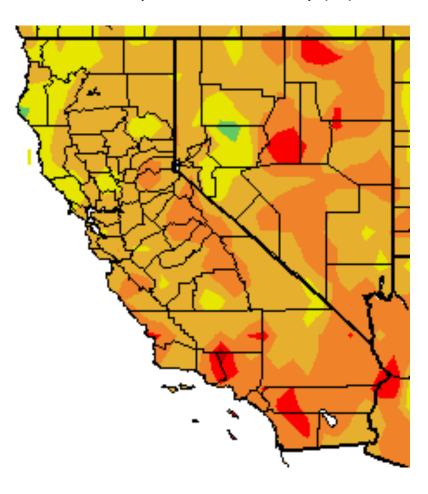
http://cirrus.ucsd.edu/~pierce/sdprecip/

What are our chances of reaching normal?

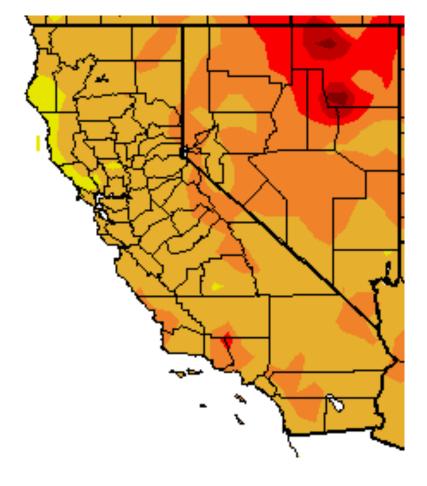


Temperature





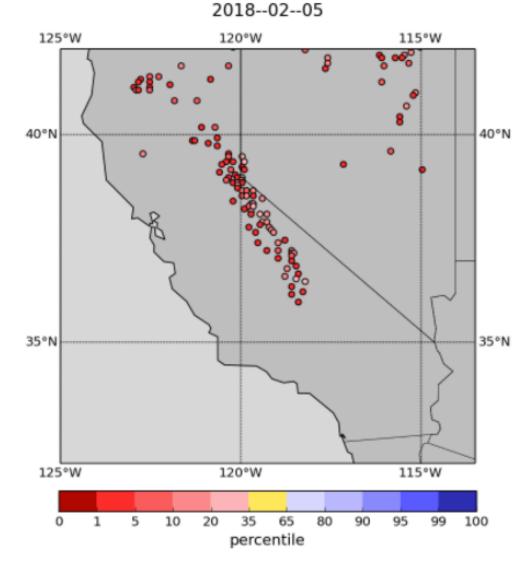
30-Day Temperature Anomaly (°F)



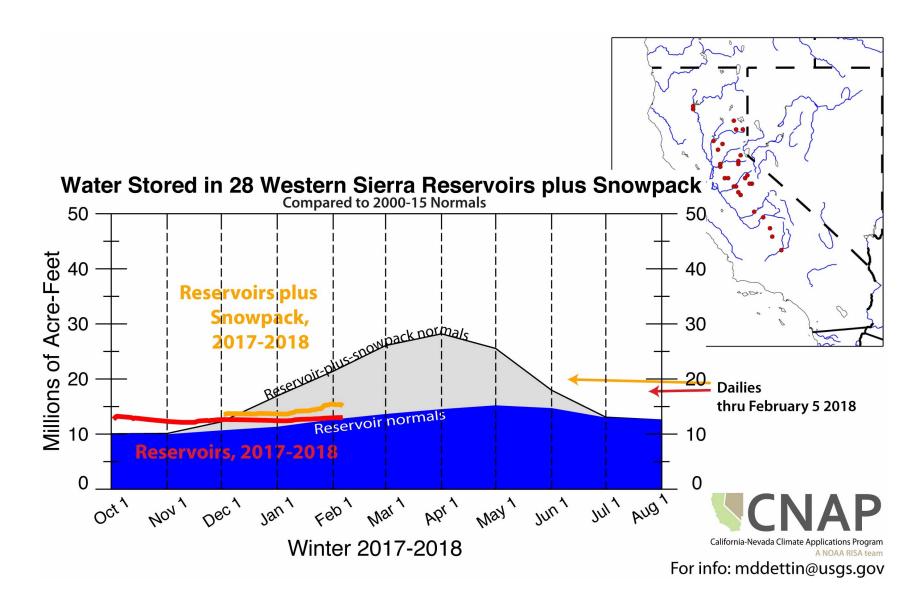
Snow Pack

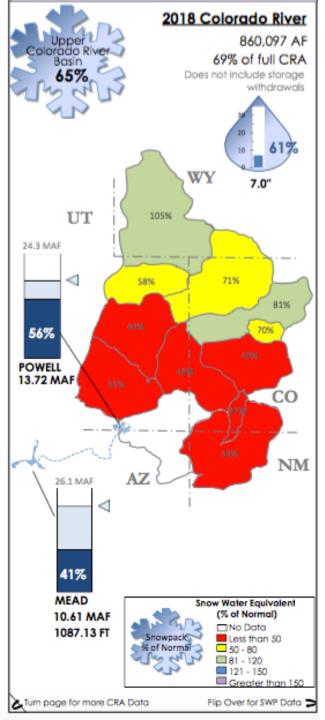
Location	SWE (in)	% of Normal
Northern Sierra	4.6	27%
Central Sierra	5.8	30%
Southern Sierra	3.8	25%

automated SWE observations wrt 1990-2010

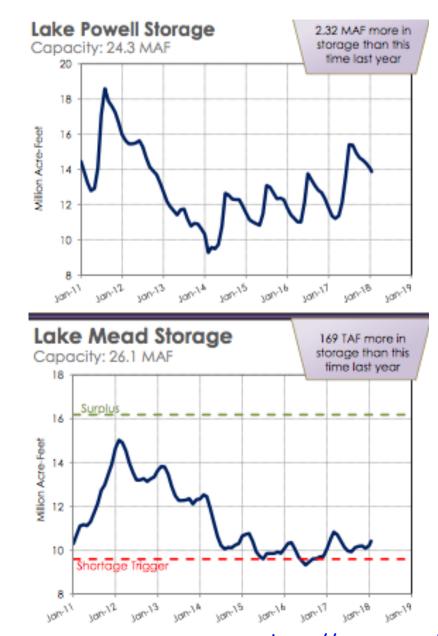


Reservoirs in CA





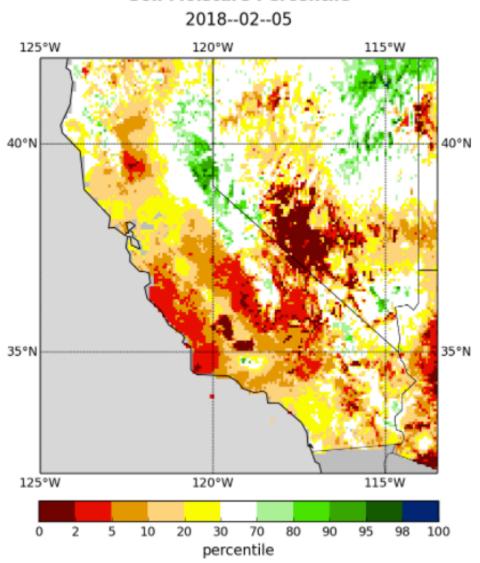
CO River Basin



http://www.mwdh2o.com/WSCR

Soil Moisture

Soil Moisture Percentile



http://www.hydro.ucla.edu/monitor_ca/index.html

Summary

- Dry Start to the WY, overall still ~15-35% of normal
- Probability of reaching normal ~20-30%
- Warmer than normal by ~4-6°F
- SWE 25-30% of normal, 1st-10th percentile range
- Reservoirs in CA are about normal snow pack is LOW
- CO is at 65% of normal