

Winter 2014-2015

Erin Boyle
Service Hydrologist
NWS Tucson, Arizona
Pima County LDIG Meeting
March 11, 2015

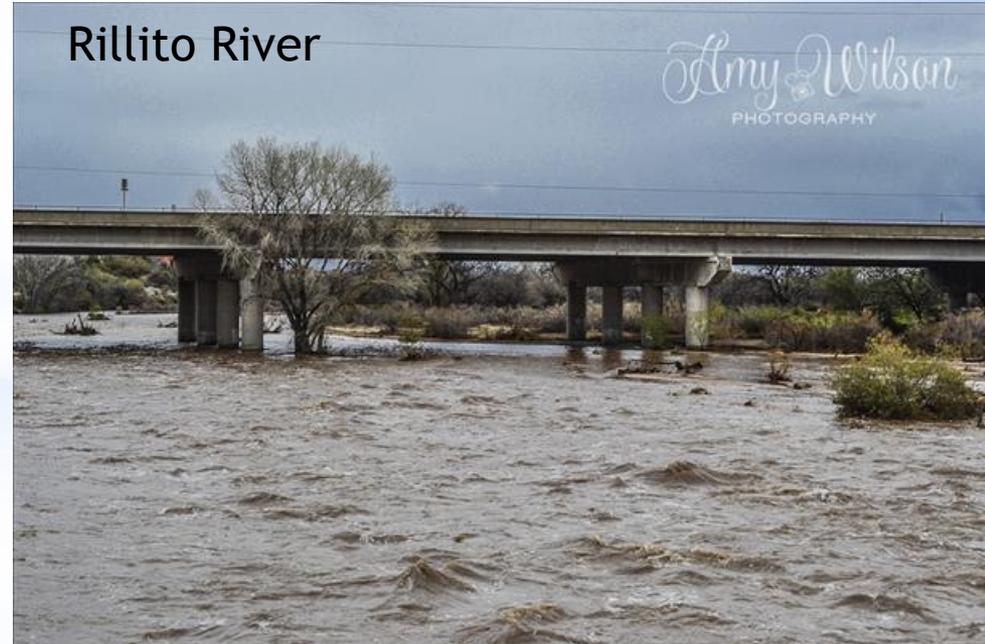


Winter Season Highlights

- * **Warmest on Record**, tied with 2013-2014
- * 14th Wettest, 5.12" Precipitation (+2.39")
- * Snow on New Years Eve
- * Significant rainfall Jan 30 & 31 causing numerous washes to flow
- * Average Monthly Temp 57.0°F (+3.8°F)
- * Water Year (Oct-Feb): 6.45" Precipitation (+2.26")



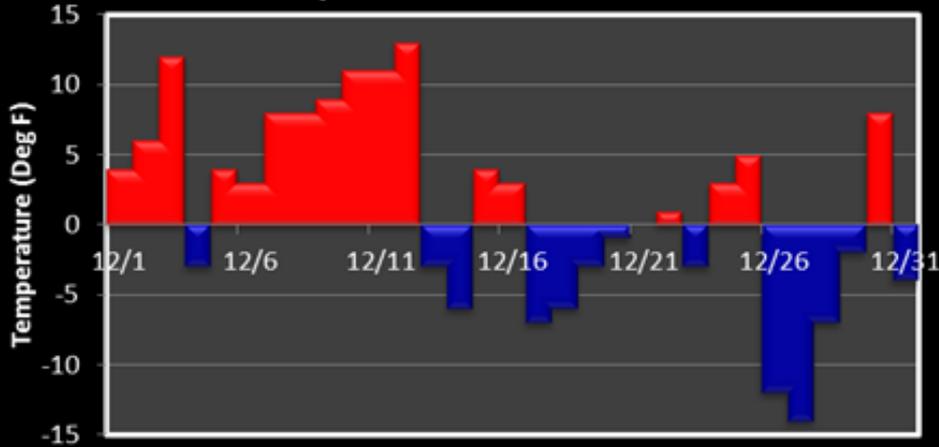
Inkidog (Tucson News Now Gallery)



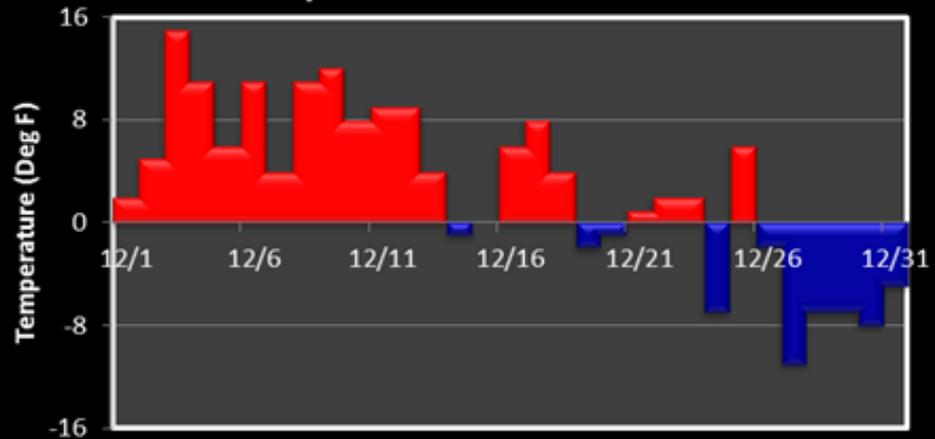
DECEMBER 2014

- * 14th Wettest and 20th Warmest
- * 2.17" Rainfall (+1.24")
- * Snow New Year's Eve
- * Average Monthly Temp 54.1°F (+2.2°F)

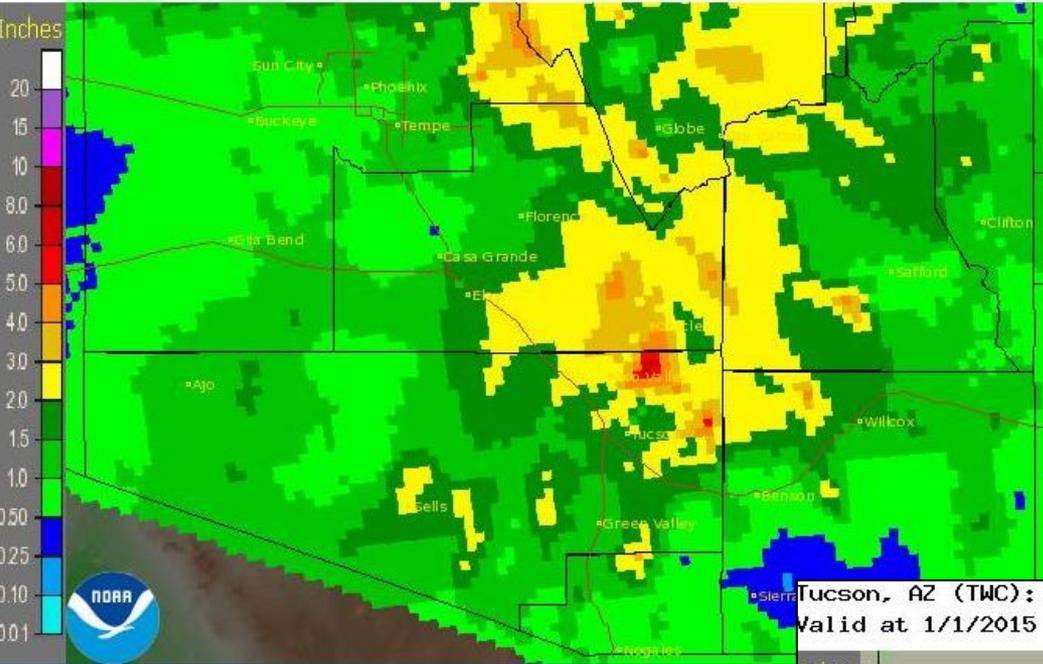
December 2014 daily high temperature departure from normal for Tucson



December 2014 daily low temperature departure from normal for Tucson

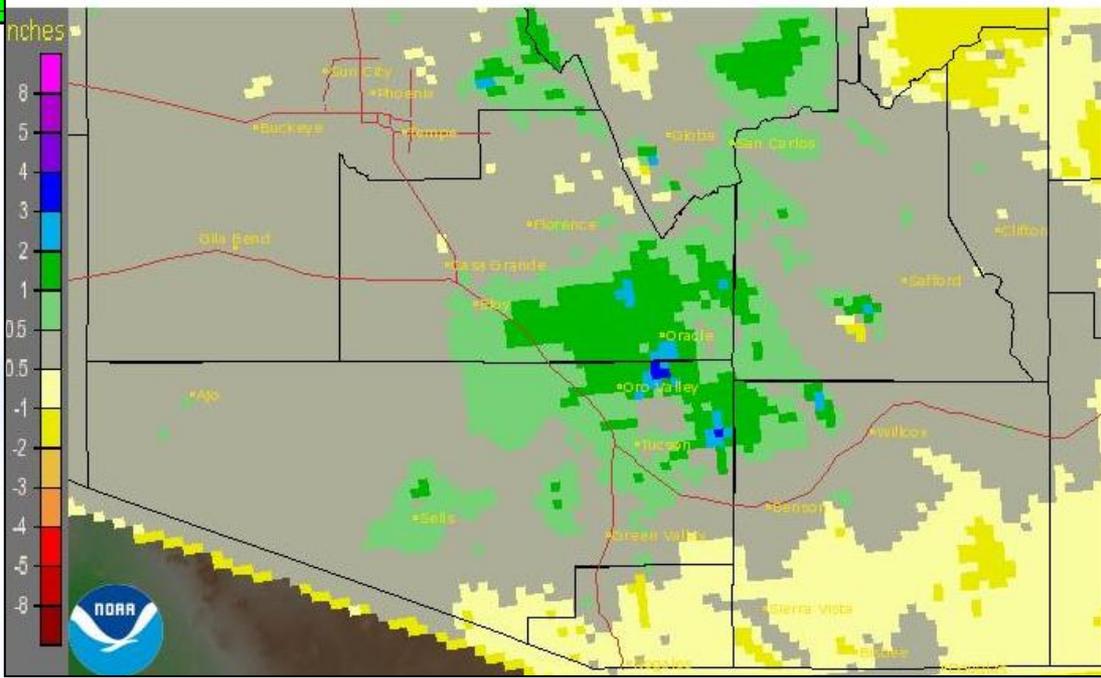


Tucson, AZ (TWC): December, 2014 Monthly Observed Precipitation
Valid at 1/1/2015 1200 UTC- Created 1/21/15 7:18 UTC



DECEMBER 2014

Tucson, AZ (TWC): December, 2014 Monthly Departure from Normal Precipitation
Valid at 1/1/2015 1200 UTC- Created 1/14/15 4:48 UTC

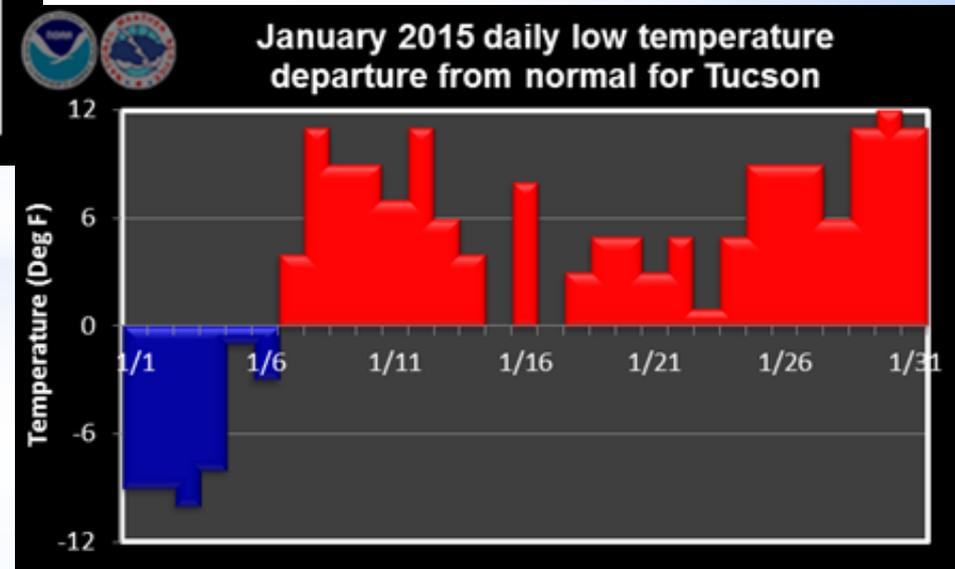
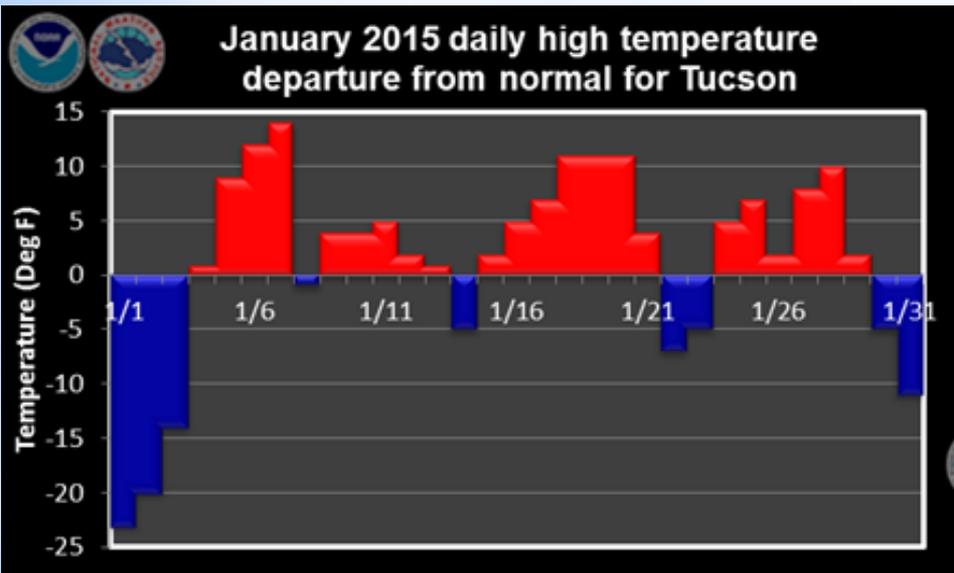


JANUARY 2015

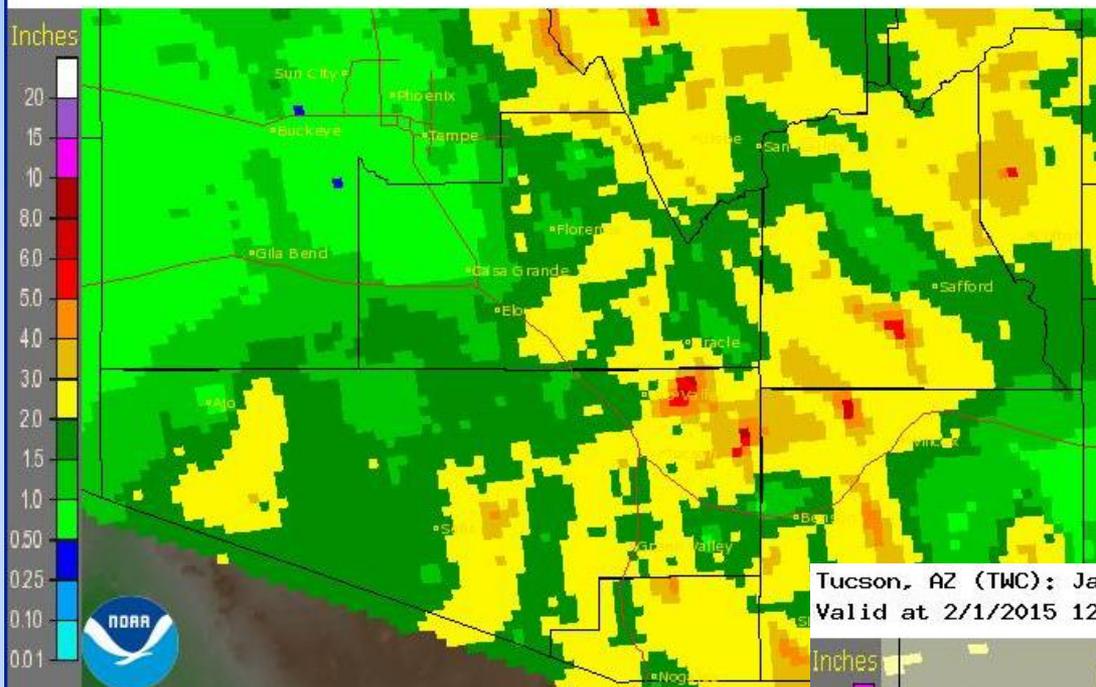
*4th Wettest and 7th Warmest

*2.54" Rainfall (+1.60")

*Average Monthly Temp 55.4°F (+2.8°F)

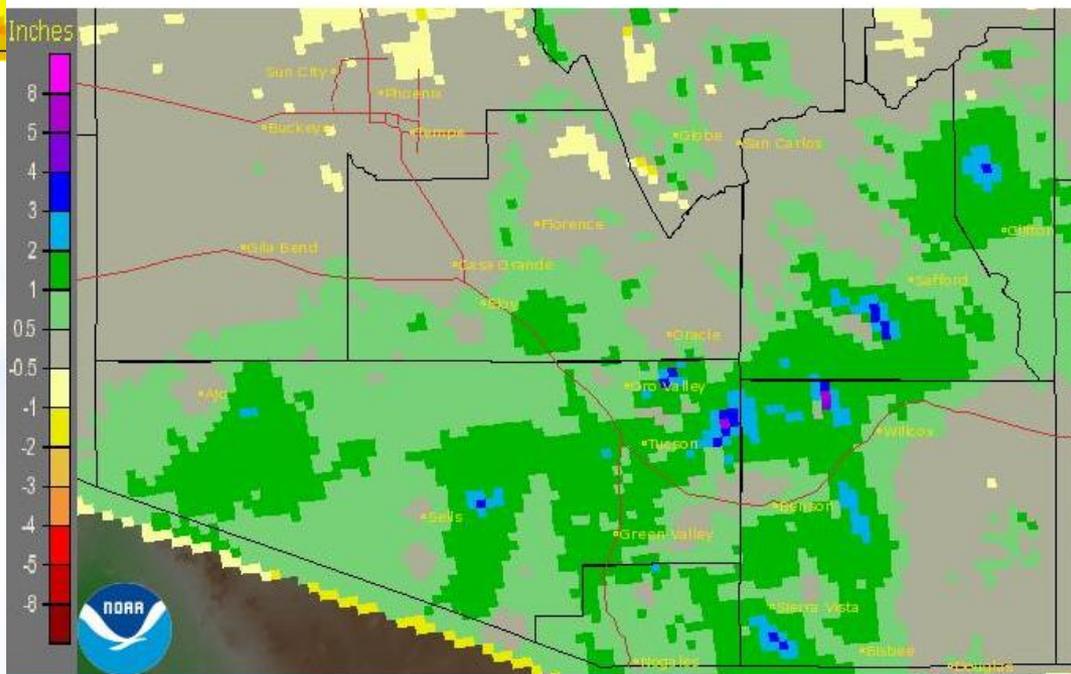


Tucson, AZ (TWC): January, 2015 Monthly Observed Precipitation
Valid at 2/1/2015 1200 UTC- Created 2/3/15 22:03 UTC



JANUARY 2015

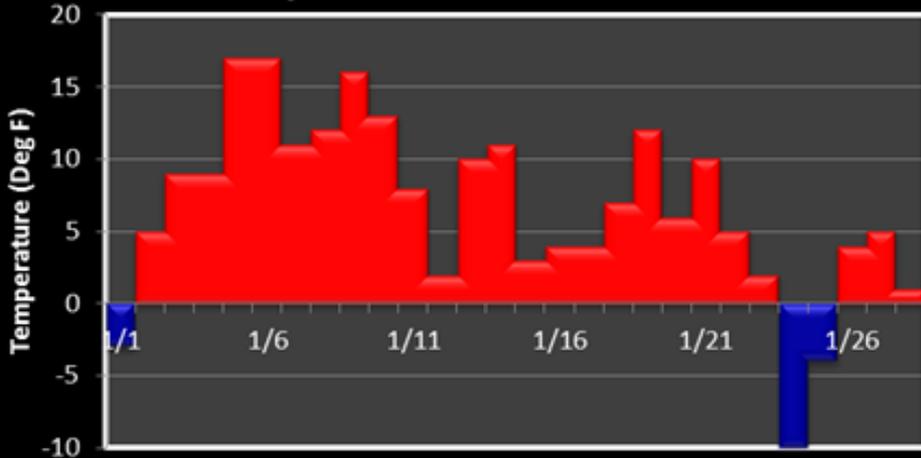
Tucson, AZ (TWC): January, 2015 Monthly Departure from Normal Precipitation
Valid at 2/1/2015 1200 UTC- Created 2/3/15 22:04 UTC



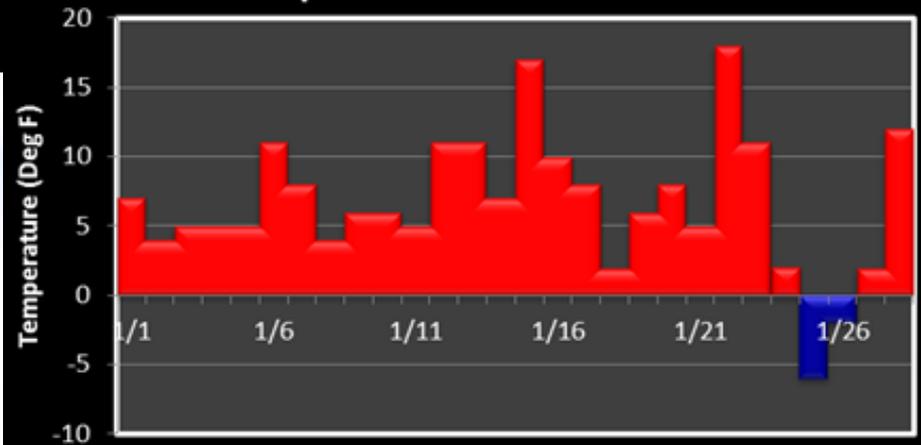
FEBRUARY 2015

- * **Warmest** February and 46th Driest
- * 0.41” Precipitation (-0.45”)
- * Average Monthly Temp 62.1°F (+6.8°F)

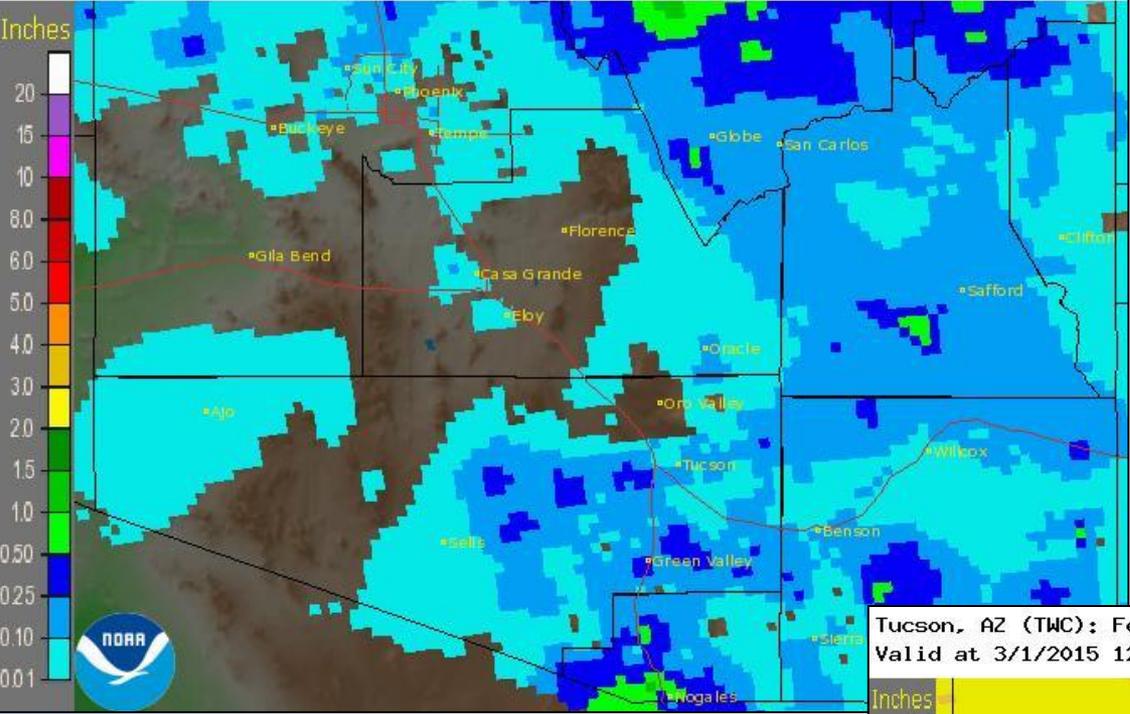
February 2015 daily high temperature departure from normal for Tucson



February 2015 daily low temperature departure from normal for Tucson

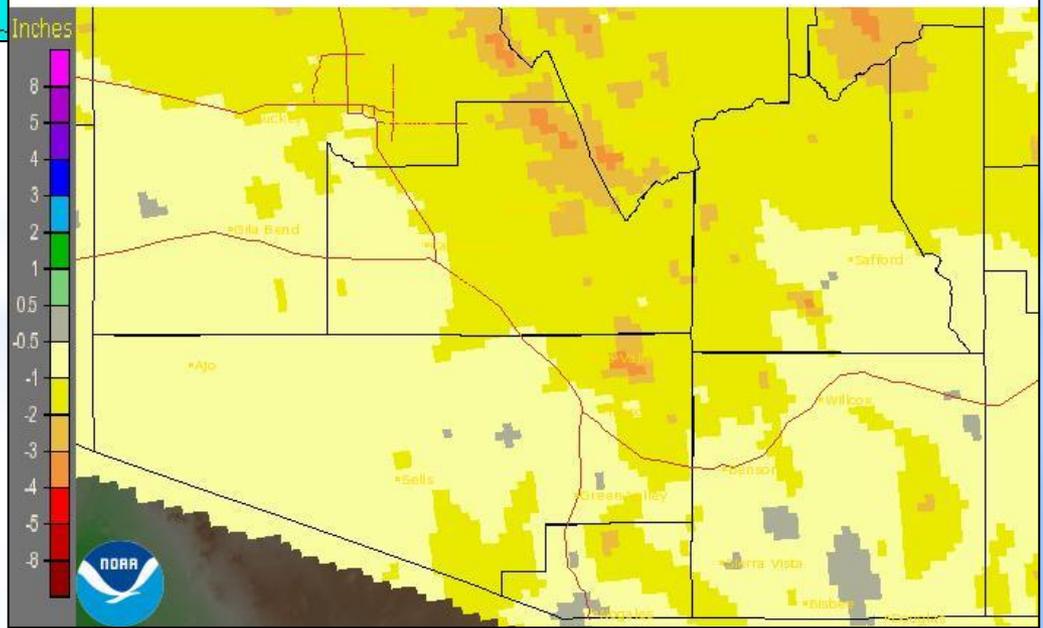


Tucson, AZ (TWC): February, 2015 Monthly Observed Precipitation
Valid at 3/1/2015 1200 UTC- Created 3/3/15 22:03 UTC



FEBRUARY 2015

Tucson, AZ (TWC): February, 2015 Monthly Departure from Normal Precipitation
Valid at 3/1/2015 1200 UTC- Created 3/3/15 22:04 UTC



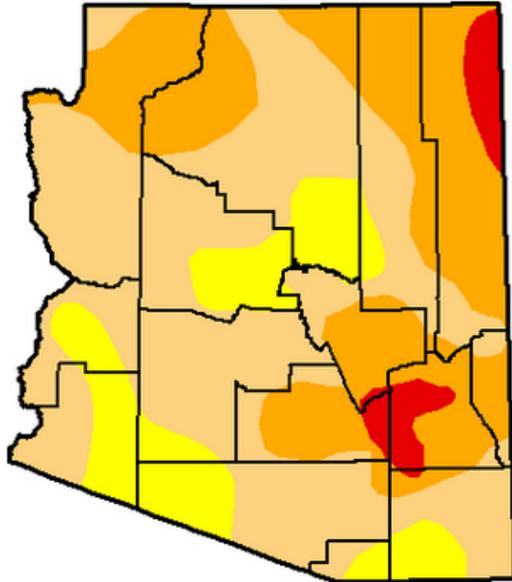
Drought Conditions

Drought Severity

■ D0 - Abnormally Dry
■ D1 Drought - Moderate

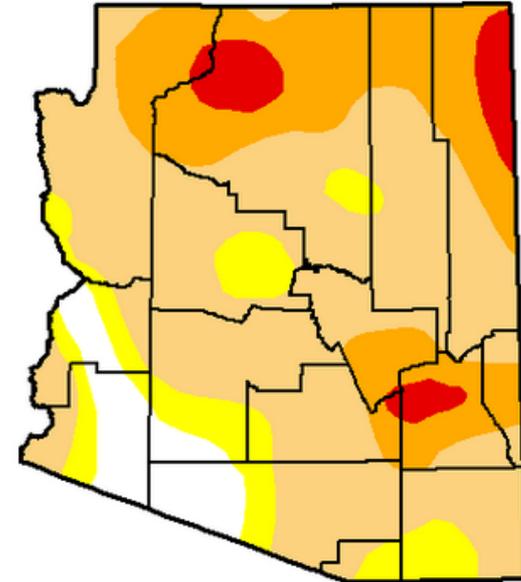
■ D2 Drought - Severe
■ D3 Drought - Extreme

■ D4 Drought - Exceptional



JPG

December 2, 2014



PNG PDF JPG

February 24, 2015

Statistics

Time Series

Narrative

Population Data

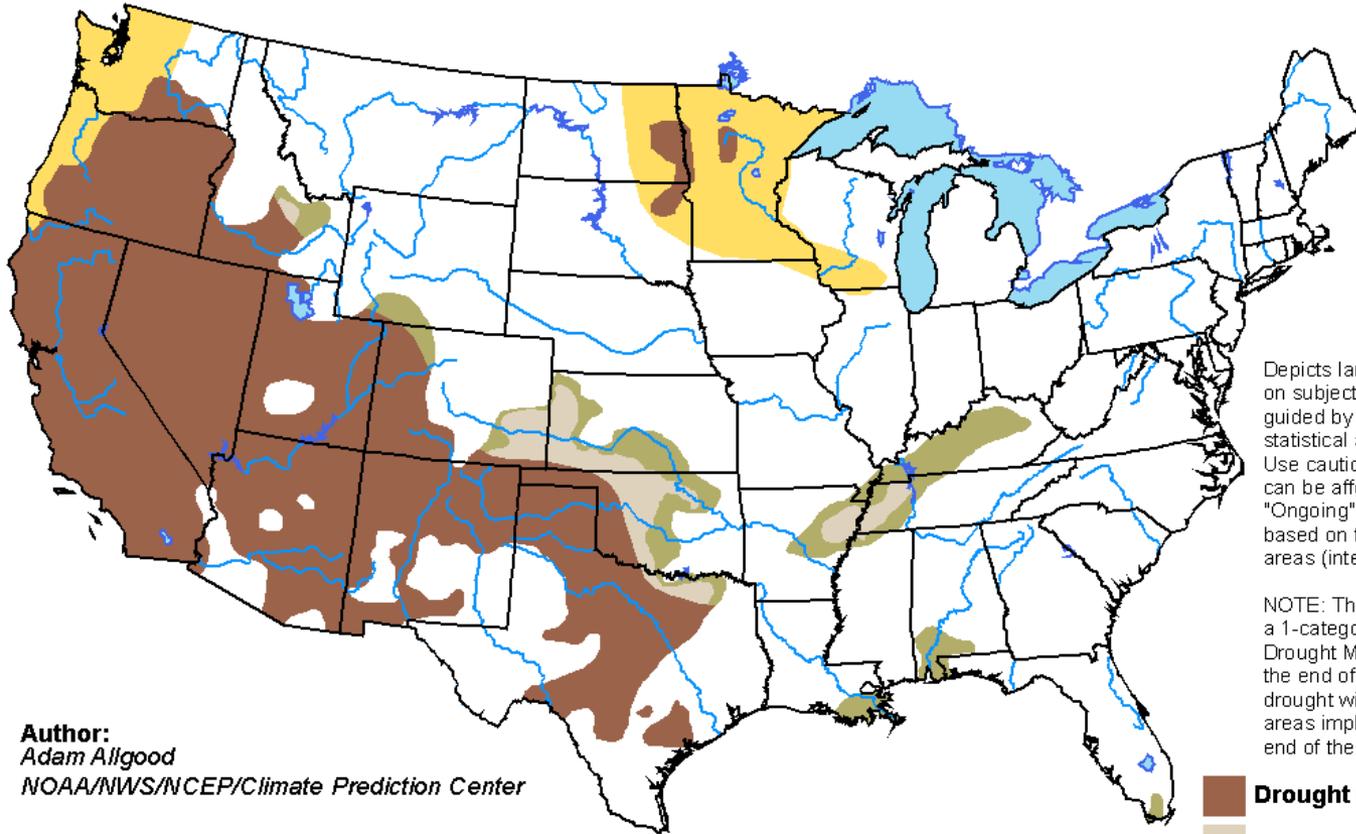
Statistics type: Traditional (D0-D4, D1-D4, etc.) Categorical (D0, D1, etc.)

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
2014-12-02	0	100	84.94	35.34	3.84	0
2015-02-24	7.12	92.88	81.78	27.79	4.94	0

Drought Conditions

U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for February 19 - May 31, 2015
Released February 19, 2015

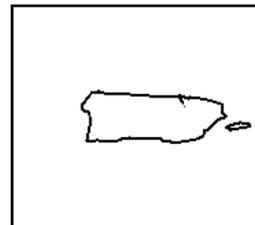
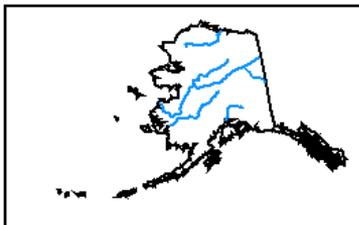


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan 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).

Author:
Adam Allgood
NOAA/NWS/NCEP/Climate Prediction Center

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

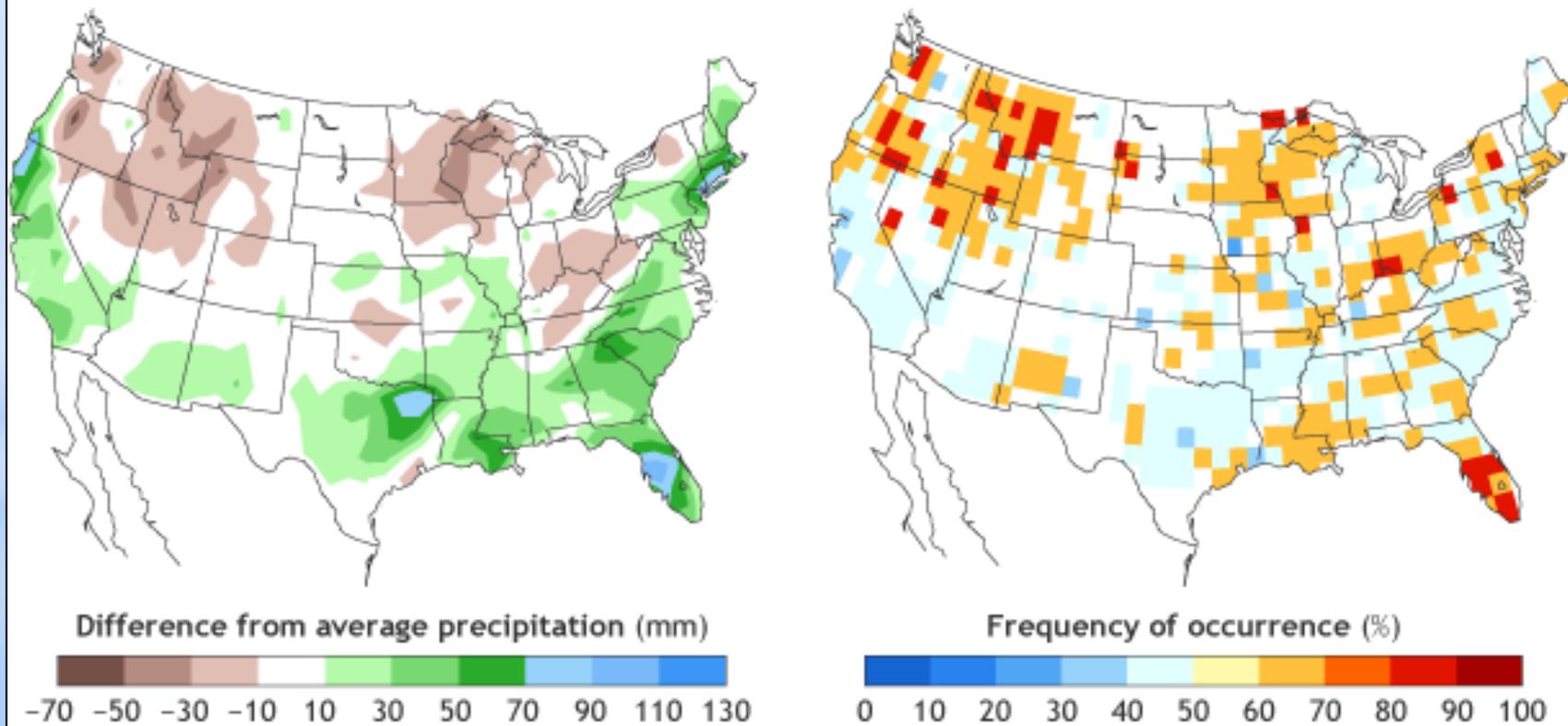


<http://go.usa.gov/hHTe>

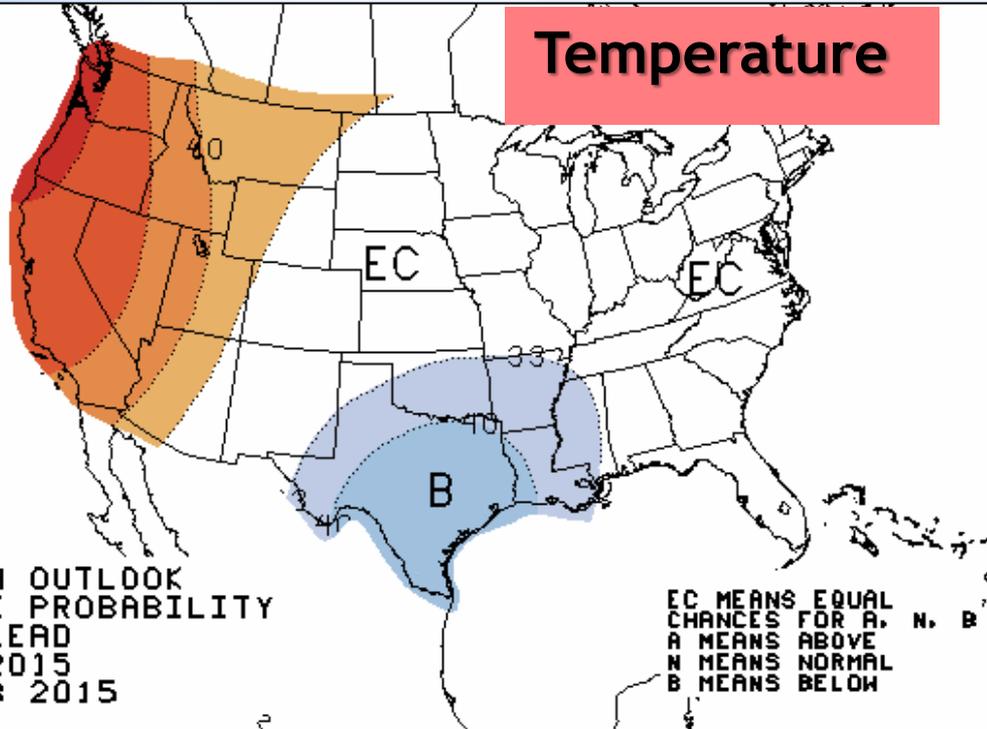
El Niño

- Advisory in Effect
- Conditions are observed and expected to continue
- 50-60% chance of El Niño through spring and summer
- Weak strength, widespread or significant global impacts are not anticipated.

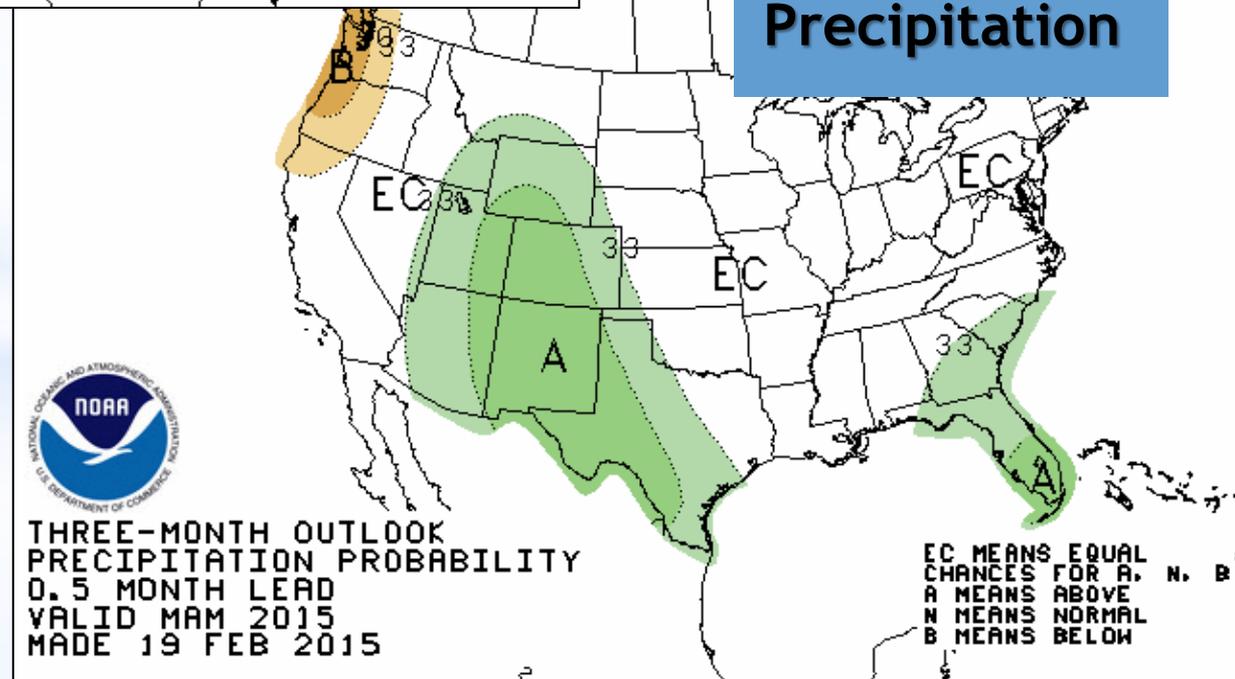
Historical March–May El Niño precipitation patterns



Temperature

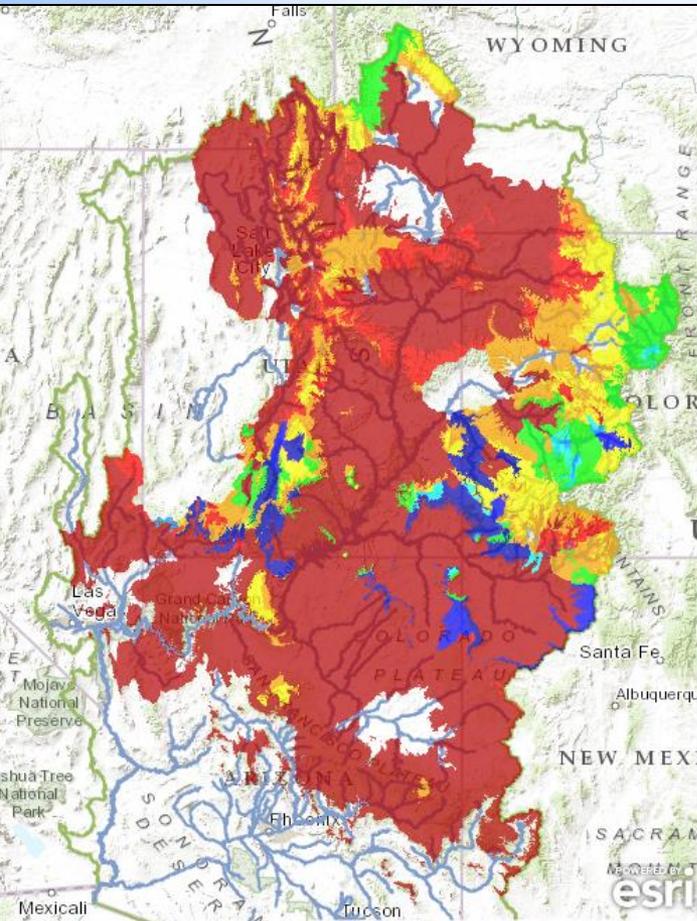


Precipitation



March - May Outlook

Colorado Basin River Forecast Center



Snow Conditions

Points Grids

Modeled SWE 2015-03-10

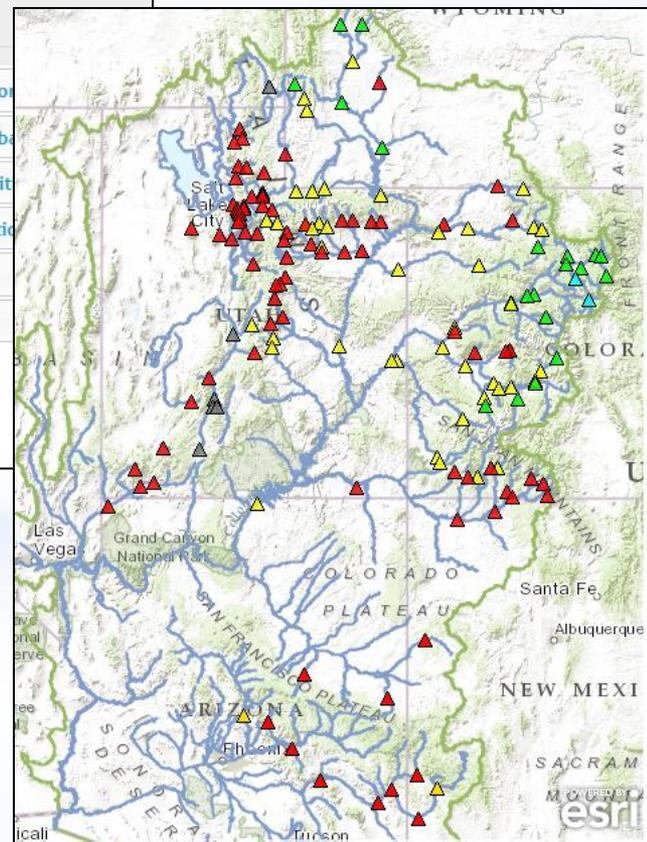
Percent Average

Percent Average Above 2

No Data

- < 25%
- 25-50%
- 50-75%
- 75-90%
- 90-110%
- 110-125%
- 125-150%
- 150-175%
- >175%

- [Water Supply Forecast](#)
- [Peak Flood Probability](#)
- [Reservoir Conditions](#)
- [Weather Conditions](#)
- [Map Options](#)
- [Search Points](#)



Water Supply Forecasts

Official Forecast Date: 2015-3-1
ESP Run Date: 2015-03-10

Show [Hide Other Types](#)

Official Percent Average

Official Percent Median

ESP Percent Average

ESP Percent Median

< 70%

70-90%

90-110%

110-130%

>130%

Regulated

No Forecast

Offices

CBRFC

WGRFC

ABRFC

- [Peak Flood Probability](#)
- [Reservoir Conditions](#)
- [Weather Conditions](#)
- [Map Options](#)
- [Search Points](#)