

# **HYDROLOGIC DATA BRIEF FOR THE EDWARDS AQUIFER**

## **February 14, 2017**

Prepared by:

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Edwards Aquifer Authority

February 14, 2017



## Current Water Levels & Springflows

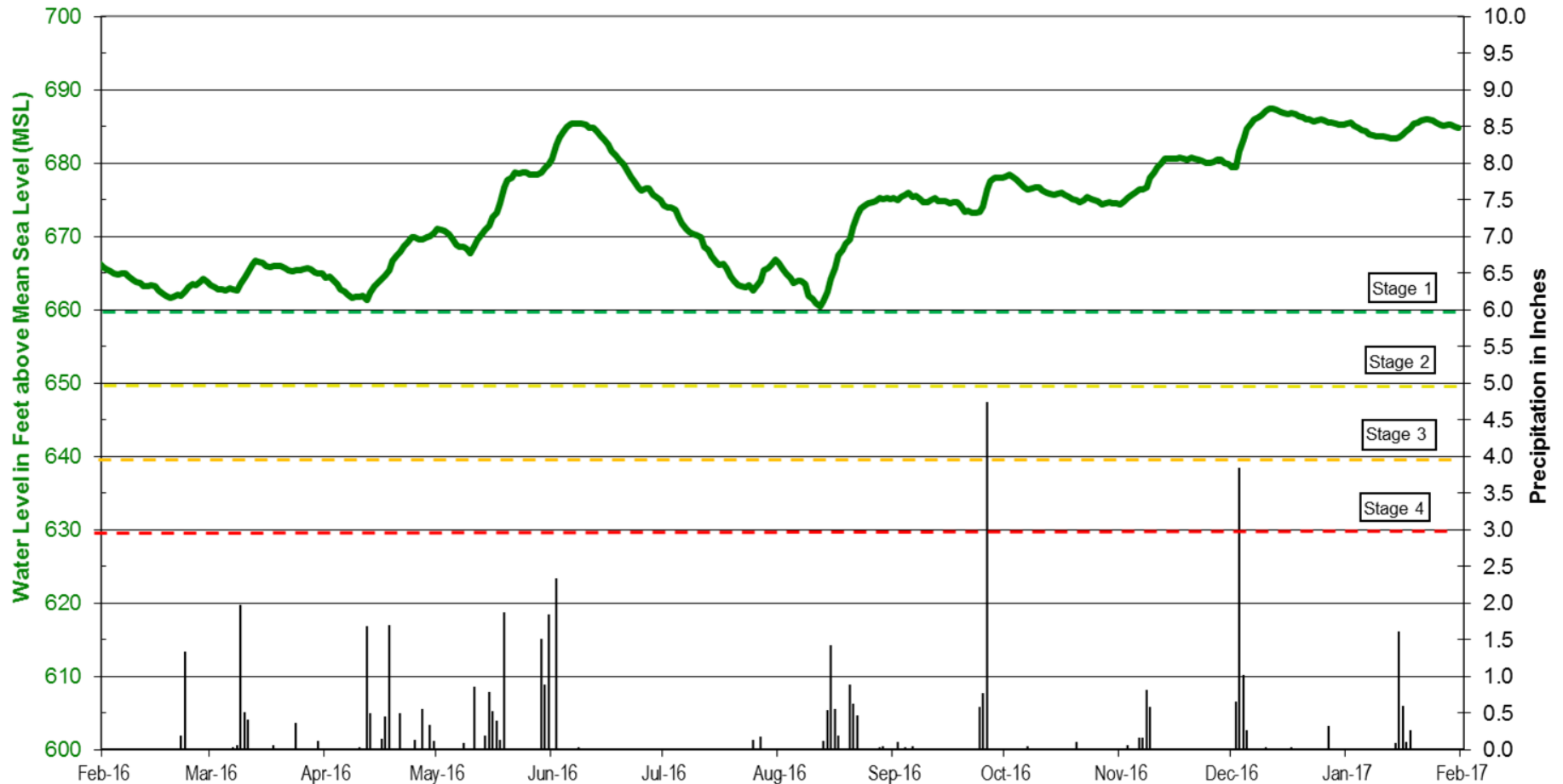
Well or Spring	Current Reading	Trend over last 10 days
J-27	875.4 msl (2/14)	+0.1 ft
J-17	683.4 msl (2/14)	-1.1 ft
Comal Springs	399 cfs (2/13)	+1 cfs
San Marcos Springs	236 cfs (2/13)	+0 cfs

## Long-Term Changes

Well or Spring	Current Reading	Year Ago	One Year Deviation	Deviation from Historical Average
J-27	875.4 msl (2/14)	861.7 msl	+13.7 ft	+7.5 ft
J-17	683.4 msl (2/14)	663.4 msl	+20 ft	+14.5 ft
Comal Springs	399 cfs (2/13)	297 cfs	+102 cfs	+85 cfs
San Marcos Springs	236 cfs (2/13)	254 cfs	-18 cfs	+61 cfs

# Well J-17 Water Level to Date (2-14-2017)

Hydrograph of the Bexar County Index Well (J-17) and Precipitation at San Antonio



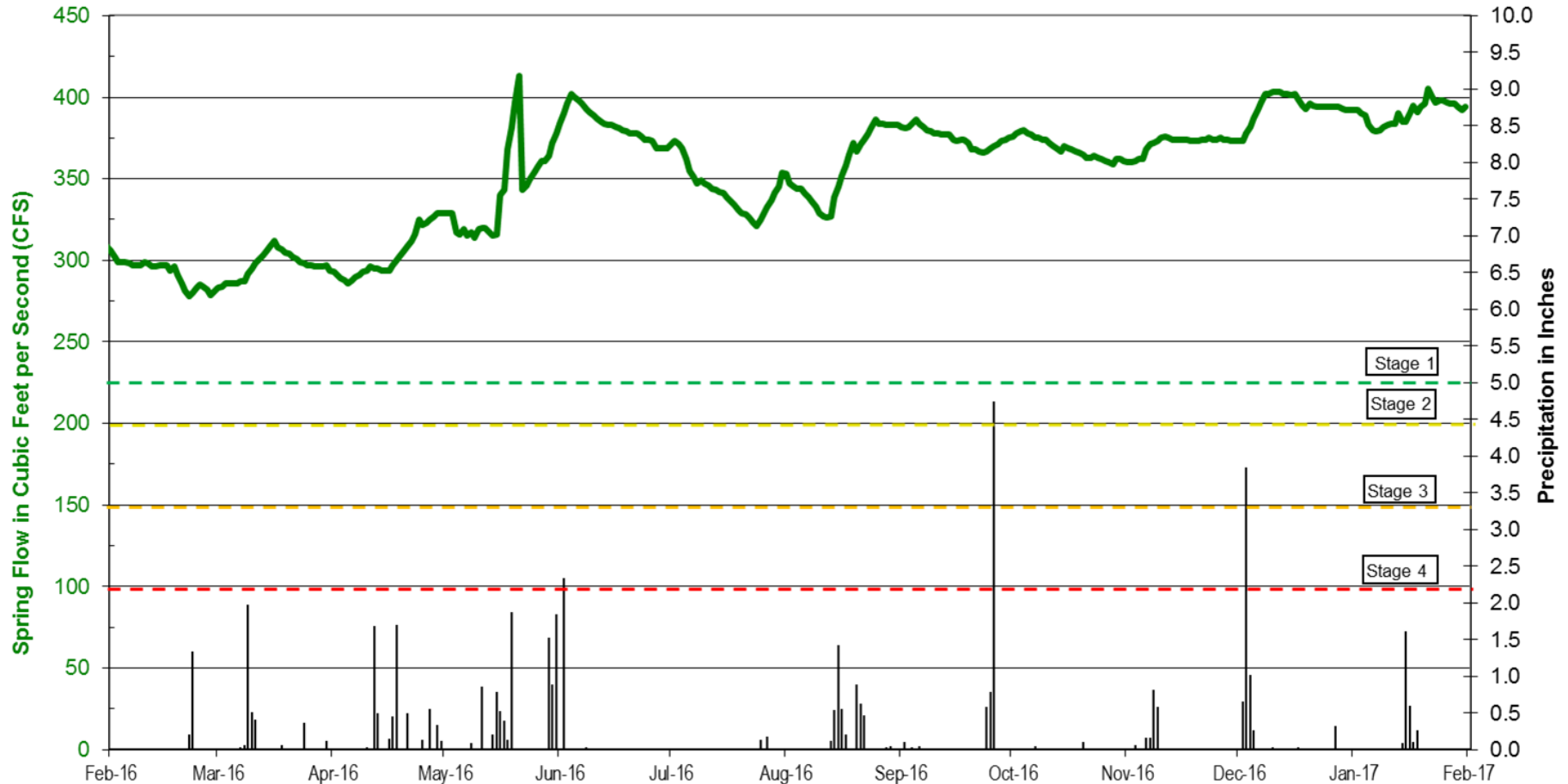
Stage 1 - Critical Period - 10-day avg. < 660' MSL  
Stage 2 - Critical Period - 10-day avg. < 650' MSL  
Stage 3 - Critical Period - 10-day avg. < 640' MSL  
Stage 4 - Critical Period - 10-day avg. < 630' MSL  
Stage 5 - Critical Period - 10-day avg. < 625' MSL

Date

Historical High - 703.3' MSL (6/14/92)  
Historical Low - 612.5' MSL (8/17/56)

# Comal Springs Discharge to Date (2-14-2017)

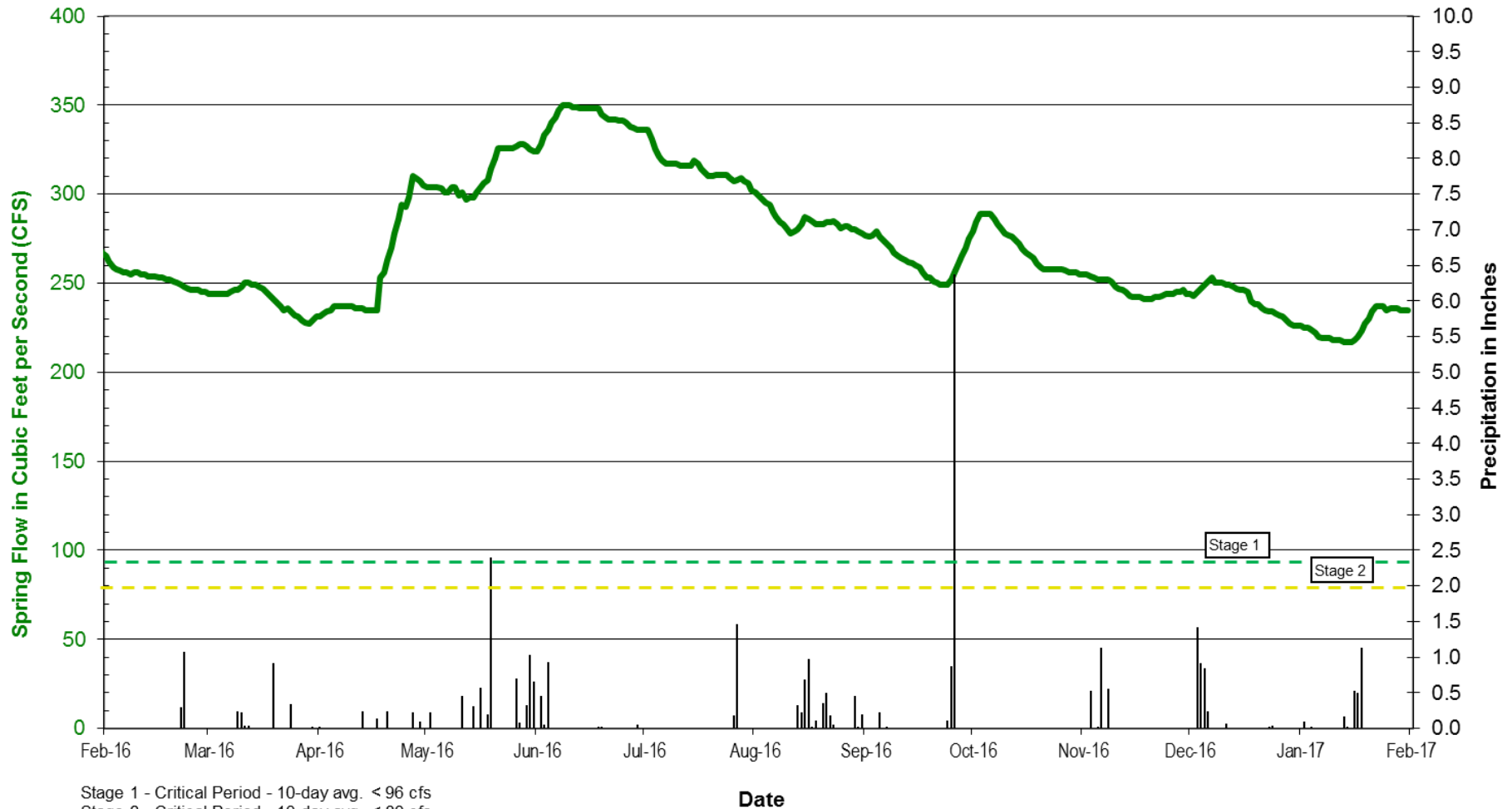
Hydrograph of the Comal Springs Discharge and Precipitation at San Antonio



Stage 1 - Critical Period - 10-day avg. < 225 cfs  
Stage 2 - Critical Period - 10-day avg. < 200 cfs  
Stage 3 - Critical Period - 10-day avg. < 150 cfs  
Stage 4 - Critical Period - 10-day avg. < 100 cfs  
Stage 5 - Critical Period - 10-day avg. < 45/40 cfs

# San Marcos Springs Discharge to Date (2-14-2017)

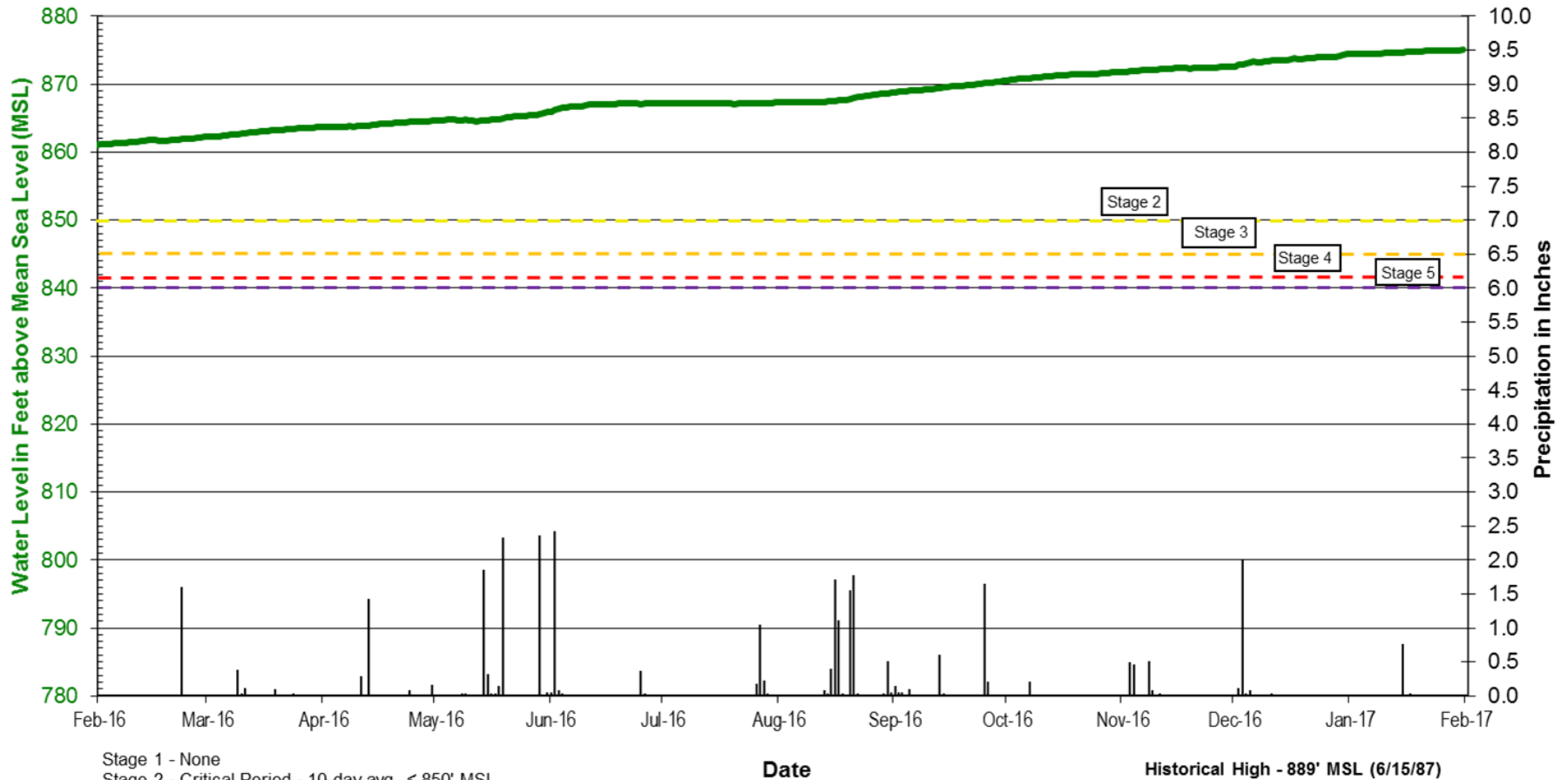
Hydrograph of the San Marcos Springs Discharge and Precipitation at San Marcos



Stage 1 - Critical Period - 10-day avg. < 96 cfs  
Stage 2 - Critical Period - 10-day avg. < 80 cfs  
Stage 3 - None  
Stage 4 - None  
Stage 5 - None

# Well J-27 Water Level to Date (2-14-2017)

Hydrograph of the Uvalde County Index Well (J-27) and Precipitation at Uvalde

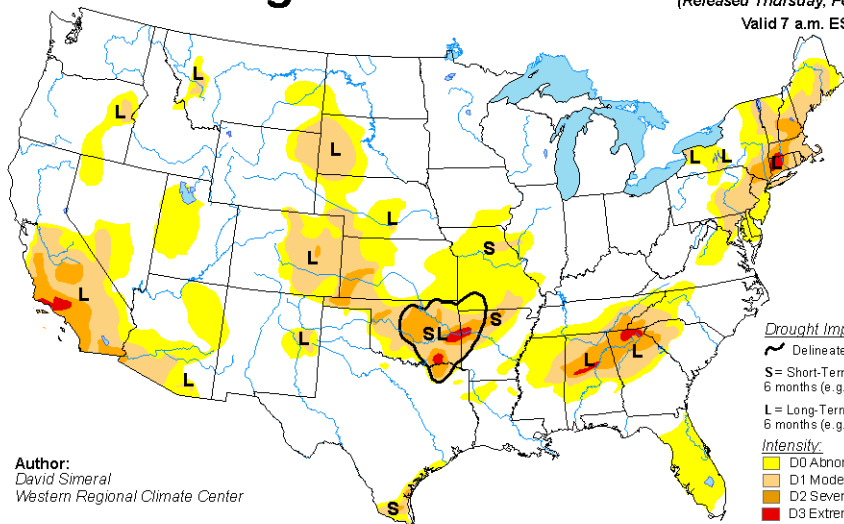


Stage 1 - None  
Stage 2 - Critical Period - 10-day avg. < 850' MSL  
Stage 3 - Critical Period - 10-day avg. < 845' MSL  
Stage 4 - Critical Period - 10-day avg. < 842' MSL  
Stage 5 - Critical Period - 10-day avg. < 840' MSL

Historical High - 889' MSL (6/15/87)  
Historical Low - 811' MSL (4/13/57)

# U.S. Drought Monitor

January 31, 2017  
(Released Thursday, Feb. 2, 2017)  
Valid 7 a.m. EST

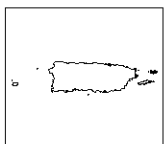
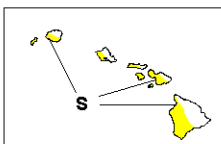
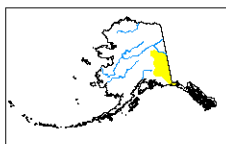


Author:  
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Western Regional Climate Center

Drought Impact Types:  
~ Delineates dominant impacts  
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)  
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)  
Intensity:  
D0 Abnormally Dry  
D1 Moderate Drought  
D2 Severe Drought  
D3 Extreme Drought  
D4 Exception

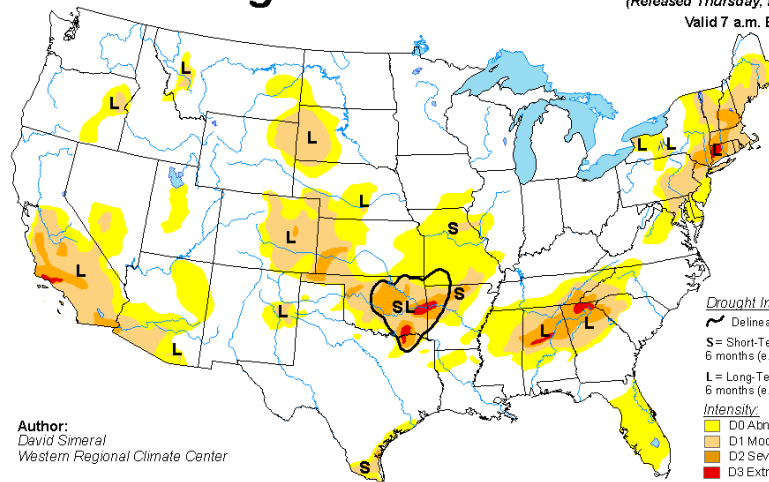
The Drought Monitor scale conditions. Local conditions may vary. See accompanying forecast statements.

USDA  
National Drought  
Intelligence  
Center  
<http://droughtmonit>



# U.S. Drought Monitor

February 7, 2017  
(Released Thursday, Feb. 9, 2017)  
Valid 7 a.m. EST

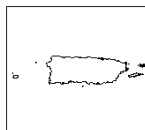
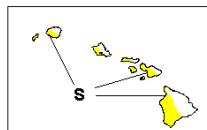
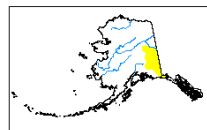


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Intensity:  
D0 Abnormally Dry  
D1 Moderate Drought  
D2 Severe Drought  
D3 Extreme Drought  
D4 Exceptional Drought

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

USDA  
National Drought  
Intelligence  
Center  
<http://droughtmonitor.unl.edu/>

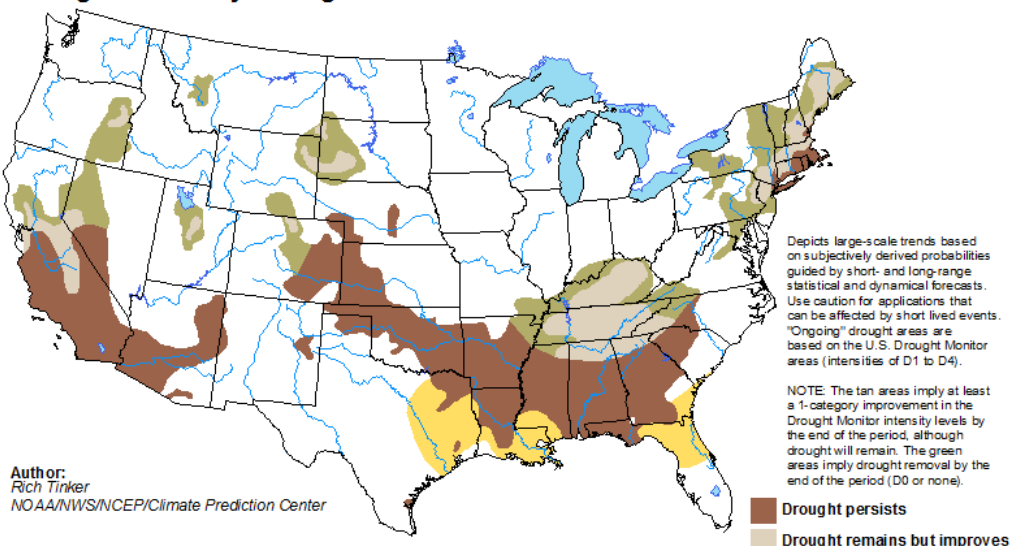




# U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for December 15 - March 31, 2017  
Released December 15, 2016



December 15 – March 31, 2017

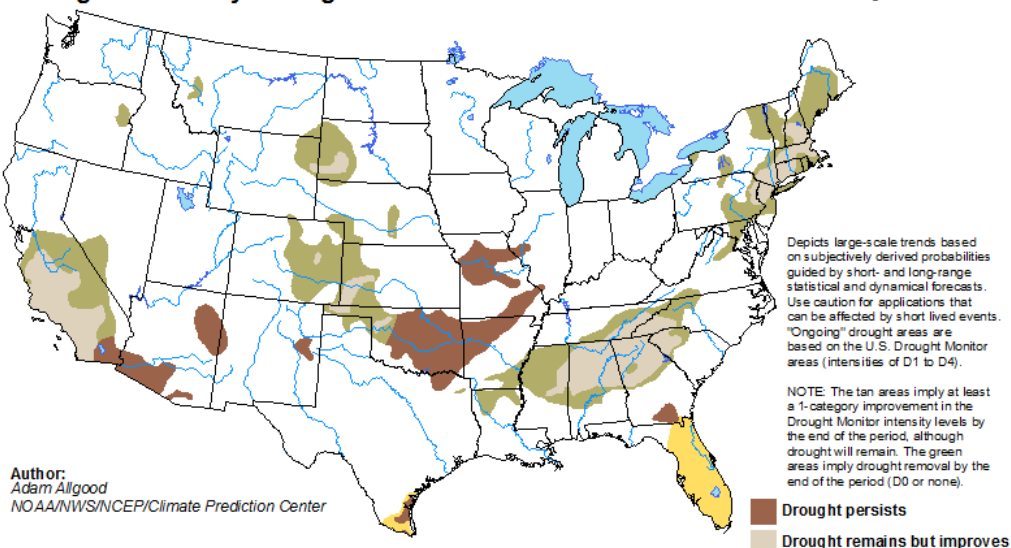
## Seasonal Drought Outlook

January 19 – April 30, 2017

# U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for January 19 - April 30, 2017  
Released January 19, 2017



ENSO-neutral conditions have returned and favored to continue through spring 2017. Some computer models predict 12% chance of La Nina, 40% chance of neutral conditions and a 48% chance of El Nino in second half of 2017.

