

DROUGHT ADAPTATION IN THE WEST



**Georgetown Climate Center
Lessons in Resilience
February 22, 2013**

**Nathan Bracken
Legal Counsel
Western States Water Council**

Western States Water Council



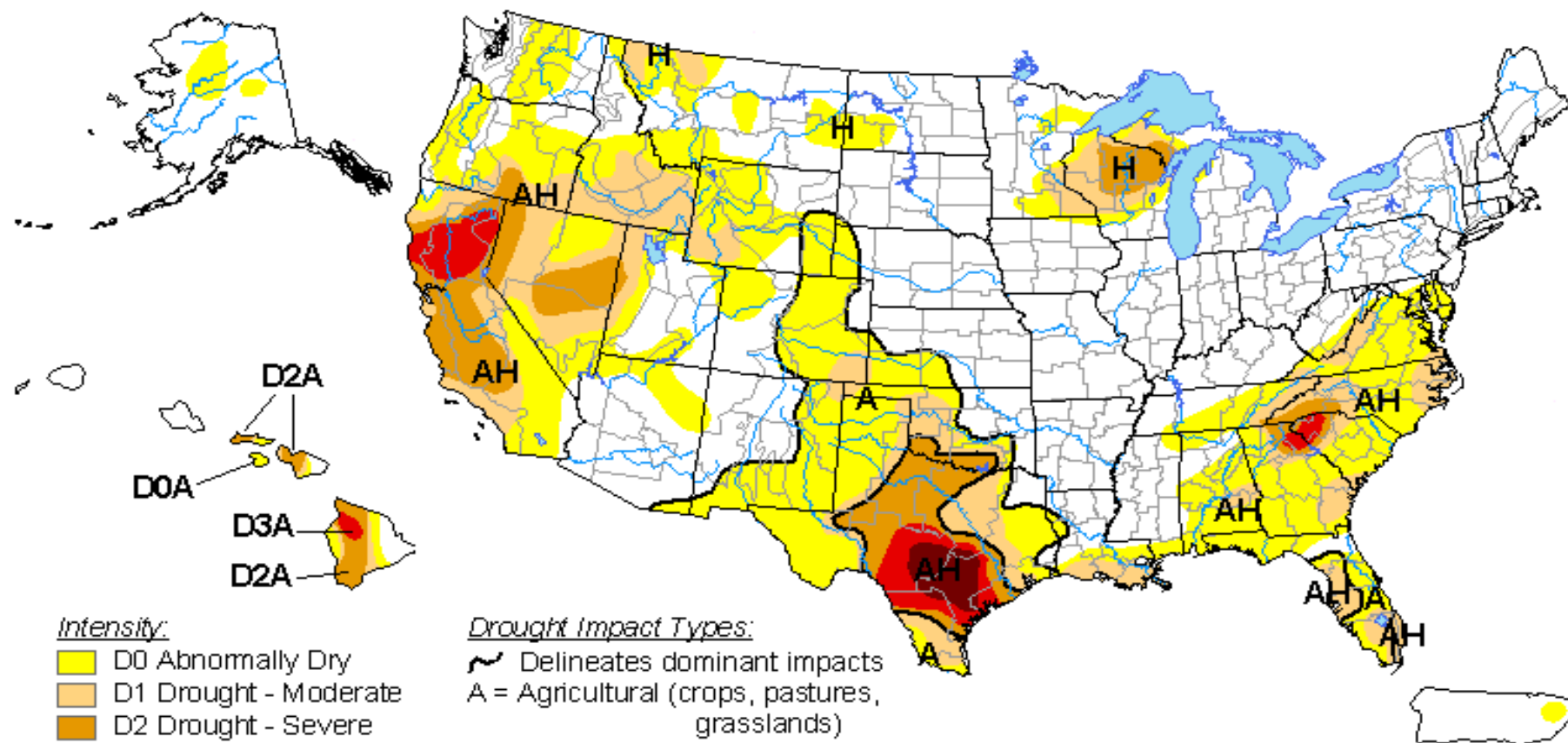
- Advisor to 18 western Governors
- Provides collective voice
- Fosters collaboration
- Formal affiliate of the Western Governors' Association

**These comments are my own and not necessarily those of the WSWC, WGA, or its member states*

U.S. Drought Monitor

February 17, 2009

Valid 8 a.m. EST



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

<http://drought.unl.edu/dm>



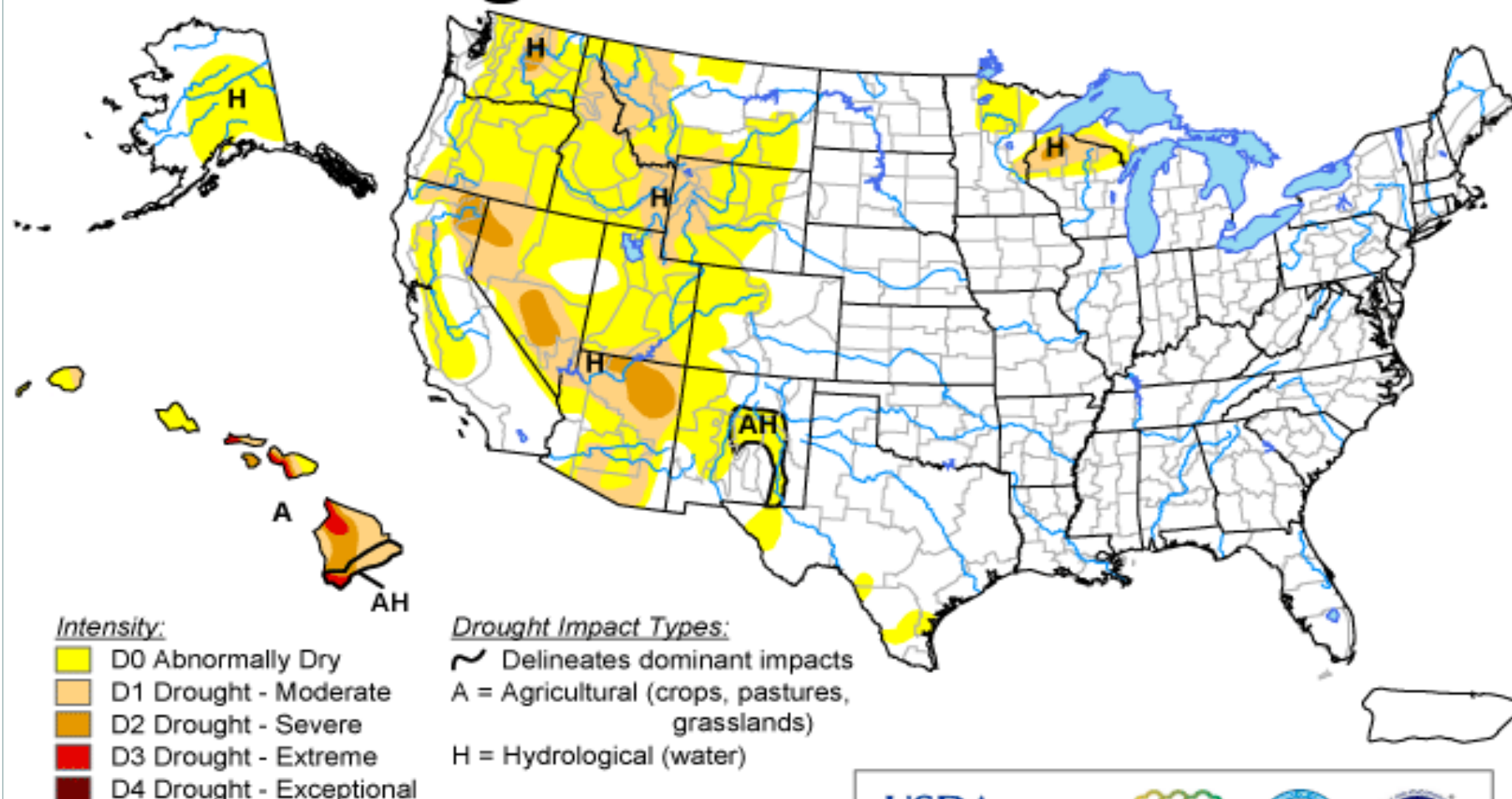
Released Thursday, February 19, 2009

Author: David Miskus, JAWF/CPC/NOAA

U.S. Drought Monitor

February 16, 2010

Valid 7 a.m. EST



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

<http://drought.unl.edu/dm>

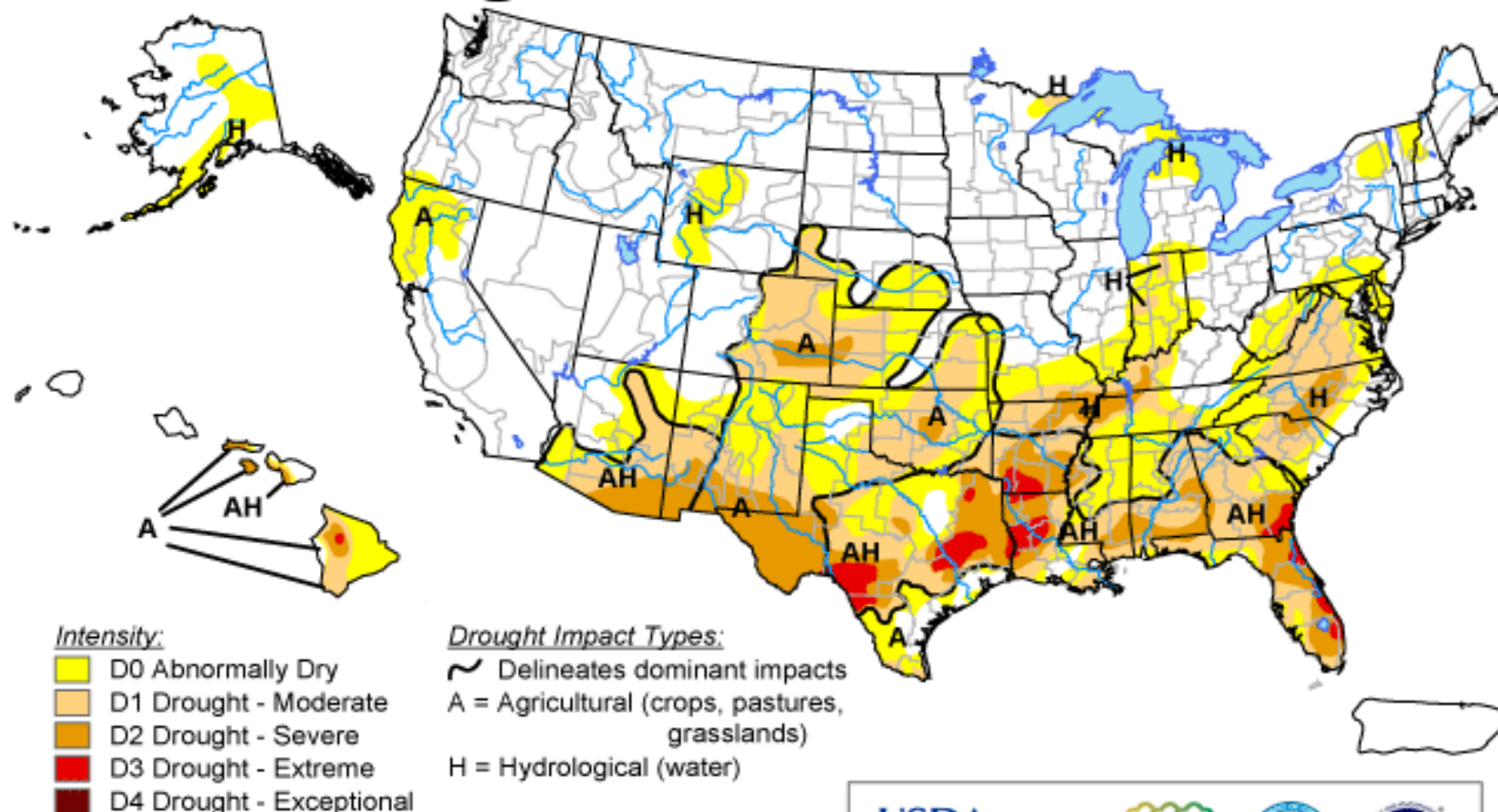


Released Thursday, February 18, 2010

Author: Brian Fuchs, National Drought Mitigation Center

U.S. Drought Monitor

February 15, 2011
Valid 7 a.m. EST



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

<http://drought.unl.edu/dm>

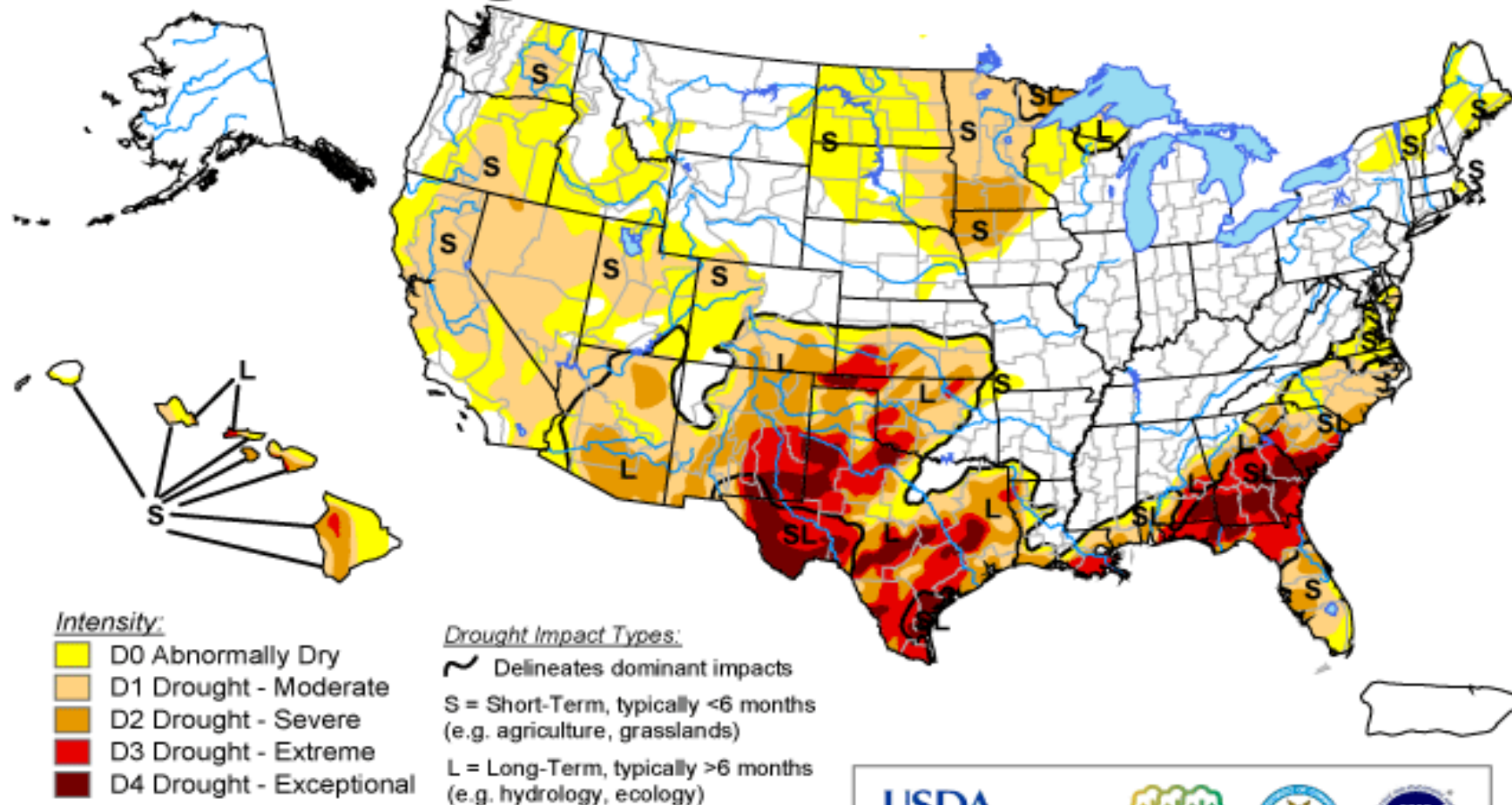


Released Thursday, February 17, 2011
Author: Matthew Rosencrans, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor

February 14, 2012

Valid 7 a.m. EST



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

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



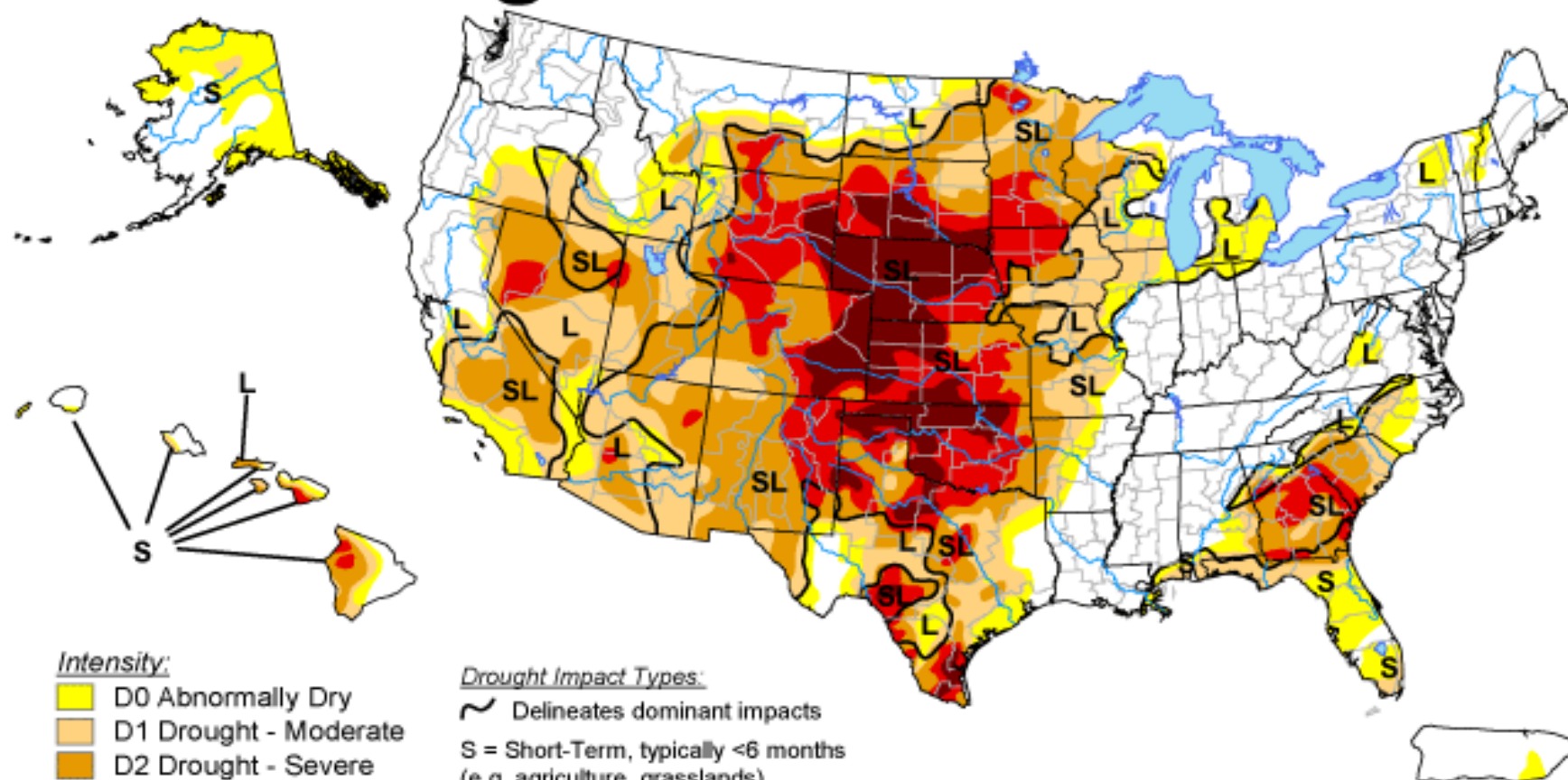
Released Thursday, February 16, 2012

Author: Rich Tinker, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor

February 12, 2013

Valid 7 a.m. EST



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

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



Released Thursday, February 14, 2013

Author: Michael Brewer/L. Love-Brotak, NOAA/NESDIS/NCDC

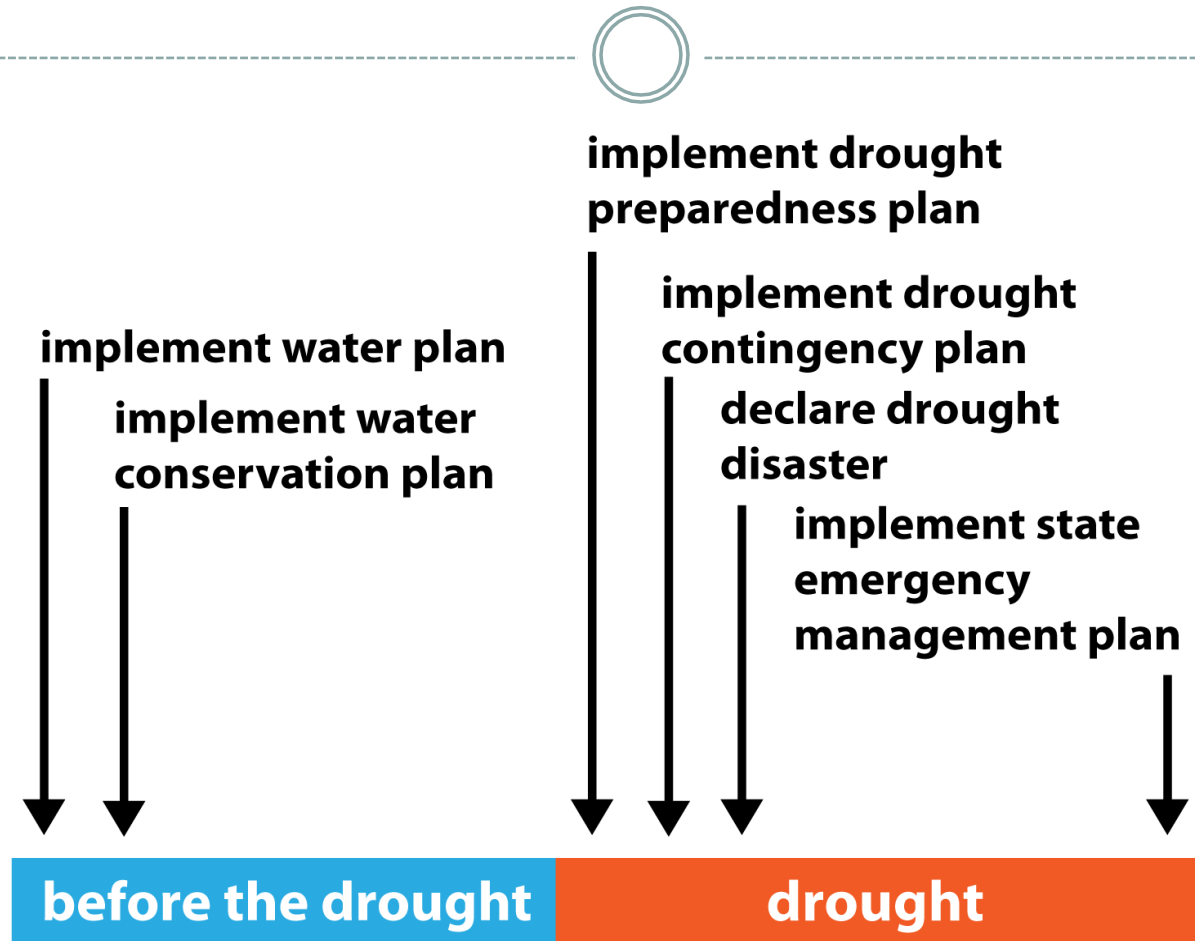
RESPONSES:

- Conservation
- Water transfers
- Water right enforcement
- Task forces
- Emergency Declarations
- Assistance Programs



**Llano, TX - Photo by Erich Schlegel, New York Times*

Planning for Drought – Texas



**Slide courtesy of Robert Mace, Texas Water Development Board*

Supporting Local Efforts - California



“Projects and programs that urban and agricultural agencies have been putting in place (often with state financial assistance) to improve local water supply reliability...help with drought preparedness.”

****California Drought Contingency Plan, Nov. 2010***

Educating the Public- Utah



**Image from www.slowtheflow.org - Utah Governors' Water Conservation Team*

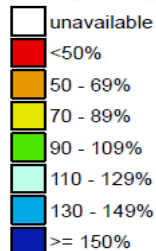
POLICY NEEDS:

- Basic Data
- Comprehensive, integrated response
- NIDIS
- Higher public priority for water

Westwide SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Feb 14, 2013

Current Snow Water Equivalent (SWE)
Basin-wide Percent of 1981-2010 Median



* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional data
subject to revision

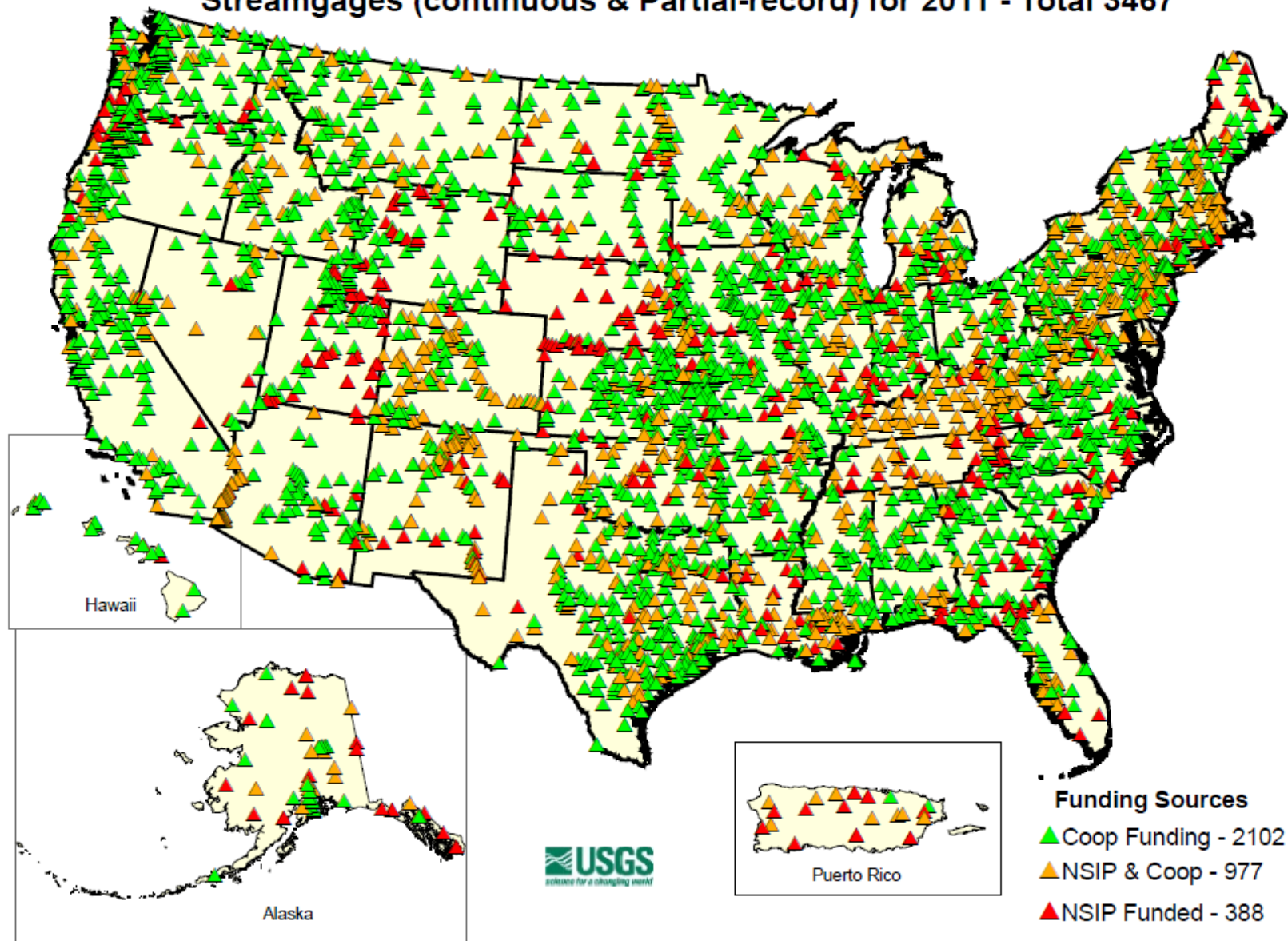


0 75 150 300 Miles

The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon <http://www.wcc.nrcs.usda.gov/gis/>
Based on data from <http://www.wcc.nrcs.usda.gov/reports/>
Science contact: Jim.Marron@por.usda.gov 503 414 3047

Funding Sources for Active USGS National Streamflow Information Program Streamgages (continuous & Partial-record) for 2011 - Total 3467



Questions?



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