

Predictive Services and National Weather Service Interactions

Ed Delgado

National Program Manager

Predictive Services



Predictive Services

- Established in 2001
- Decision-support for fire management and resource distribution
- National Unit in Boise
- 11 Geographic Area units
- 23 (24) meteorologists
- 11+ Intel Coordinators/Officers
- 2 Fire Analysts



National Weather Service

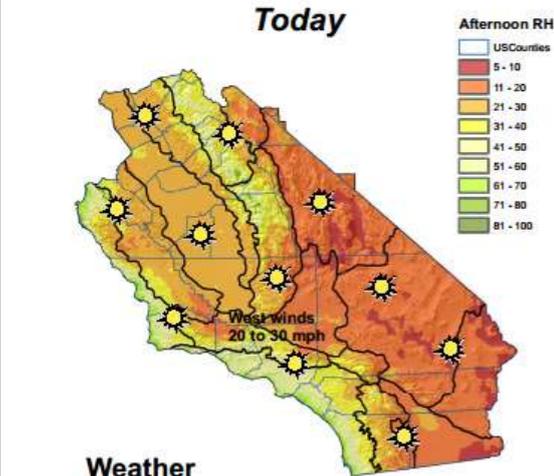
- 122 Forecast offices
- Short-term forecasts and warnings
- Extended period forecasts
- Incident Meteorologists



Products

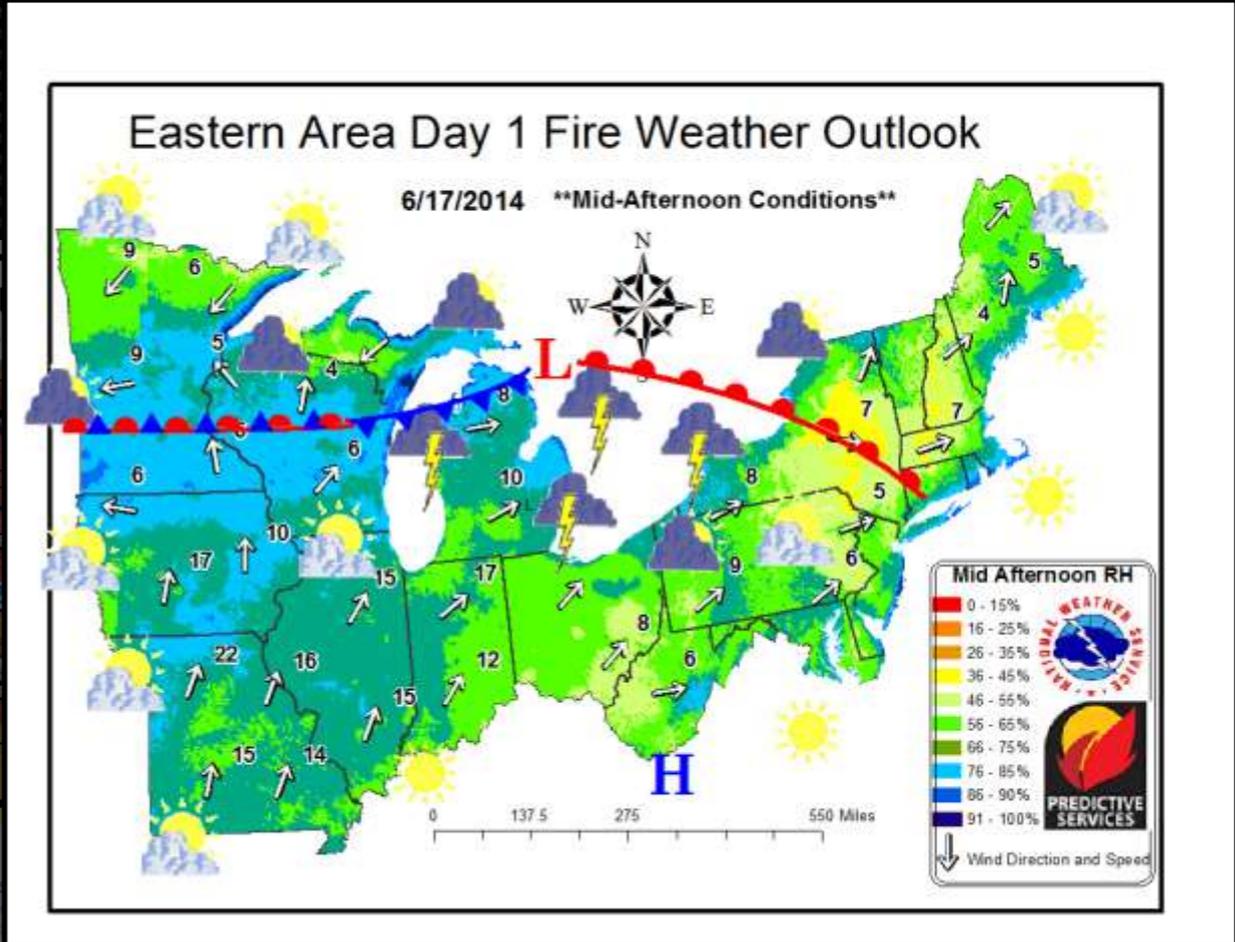
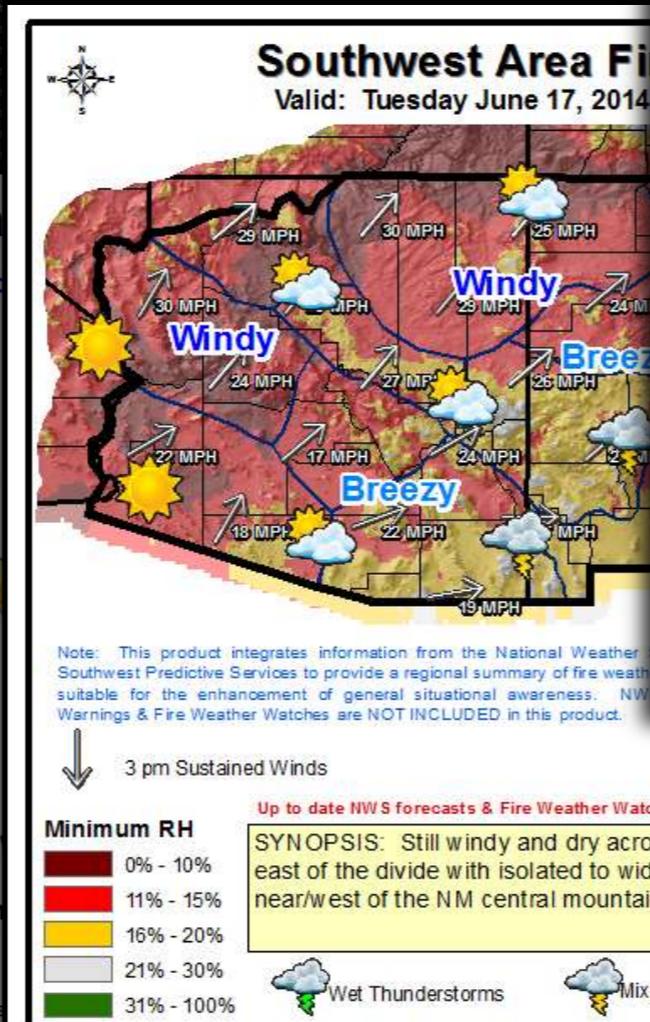
Daily Weather Outlooks

Central and Southern California Daily Outlook



***Continued strong westerly winds across the mountain ridges and desert pass

There will be little change in the weather today as a strong trough, for this time of year, remains over the West Coast. Westerly winds of 20 to 30 mph with gusts to 50 mph will occur over Tehachapi Mountains, Antelope Valley, and Banning Pass through this evening as strong onshore flow continues. Otherwise, there will be westerly winds of 10 to 20 mph across most of the region this afternoon. Temperatures will remain around 5 degrees below normal today, with 60s to low 70s in the mountains and mid 70s to upper 80s in the valleys. Minimum humidity will continue to be mainly between 15% and 30%, except it will be 8% to 15% across the deserts. The trough will weaken bringing light winds and a couple degrees of warming to the region Wednesday. Minimum humidity will lower into the teens across most of the region away from the coast Wednesday. Greater warming along with minimum humidity in the single digits and teens will affect areas away from the coast Thursday and Friday as a ridge of high pressure builds into the state from the southwest. Temperatures will temporarily cool a degree or two Saturday as the ridge weakens, but the ridge will strengthen once again Sunday through early next week causing renewed warming and continued very low humidity. END/Shameson



Products

Daily Weather Outlooks

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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Local forecast by "City, St" or ZIP code
Enter location: Go
[Location Help](#)

Severe weather possible from northern Plains across Midwest to southern New England
The NWS Storm Prediction Center is forecasting a risk of severe thunderstorms & evening, from eastern Montana & northeastern Wyoming across parts of southern New England. Damaging wind & hail will be the main threats with severe weather. [Read More](#)

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ACTIVE ALERTS FORECAST MAPS RADAR RIVERS, LAKES, RAINFALL

Created: 06/17/14 at 10:00 AM MST

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Routine Fire Wx Planning Fcst
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• Turn Dictionary On •

FMUS55 KFGZ 171136
FWFFGZ

FIRE WEATHER PLANNING FORECAST FOR NORTHERN ARIZONA
NATIONAL WEATHER SERVICE FLAGSTAFF AZ
436 AM MST TUE JUN 17 2014

XML RSS Feeds
Current Hazards
Watches / Warnings

NOAA's National Weather Service
Storm Prediction Center

Site Map News Organization

Local forecast by "City, St" or "ZIP"
City, St: Go

Day 2 FW Outlook >

Jun 17, 2014 Day 1 Fire Weather Outlook
Updated: Tue Jun 17 08:53:03 UTC 2014 (Print Version |)

Day 1 Fire Population Cities/Towns CWAs Interstates Counties FEMA Regions Day 1 Surface Analysis

THIS MORNING TO 9 PM MST
W RELATIVE HUMIDITY FOR ALL
D ERRATIC WINDS +++
S INDICATES MAINLY

TICAL FIRE WEATHER
NDS. OVERNIGHT WIND SPEEDS
EASE FROM LATE TUESDAY NIGHT
R WINDS ARE EXPECTED...THOUGH
Y.
115) -
WILLIAMS...MUNDS PARK

ALBUQUERQUE SPOT FORECASTS
for
Tuesday
May 6 2014
[CALENDAR](#)

[Submit a new Spot Request](#)

Name	Ignition Time	Status
Mesa Chivato Ex	7:50 am MDT	COMPLETE at 7:47 am MDT
Galina WUJ	9:00 am MDT	COMPLETE at 8:16 am MDT

National Oceanic and Atmospheric Administration (NOAA)
National Weather Service
Fire & Public Weather Services Branch
Page Author: NWS Internet Services Team
Page last updated at 6:57 am MST 3/5/07

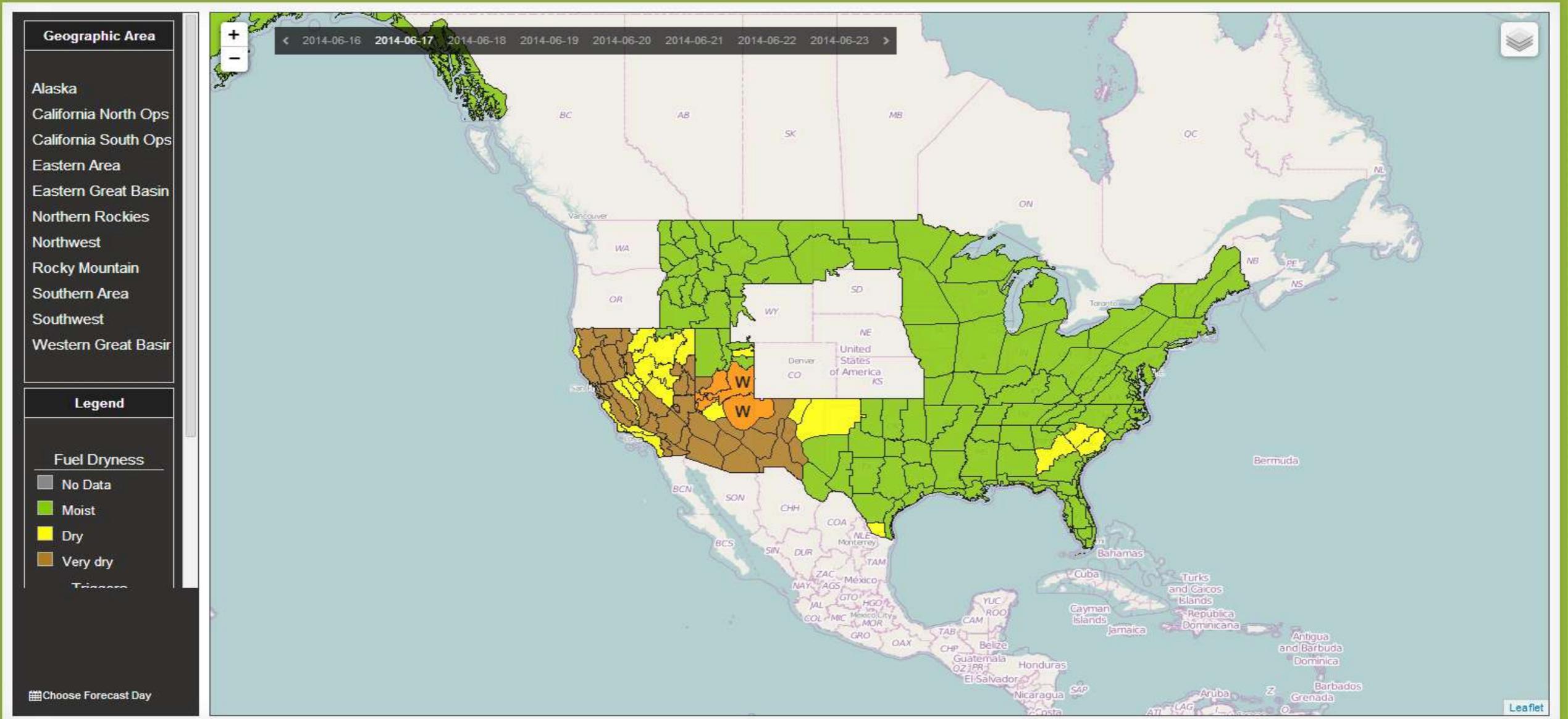
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Products

7-day Significant Fire Potential Outlook

 NATIONAL 7-DAY SIGNIFICANT FIRE POTENTIAL



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Version:



National Interagency Coordination Center
National Interagency Fire Center
3833 S Development Avenue, Boise, ID 83705



Products

Seasonal and Monthly Outlooks

National Significant Wildland Fire Potential Outlook
 Predictive Services
 National Interagency Fire Center
 Issued: June 1, 2014
 Next Issuance: July 1, 2014
Outlook Period – June, July, and August through September 2014
 Executive Summary

The June, July, and August through September 2014 significant wildland fire potential included in this outlook represent the cumulative forecasts of the eleven Geographic Services Units and the National Predictive Services Unit.



June
 - Above normal fire potential will be much of California, southern southwestern New Mexico. Central the southeast interior will also expect normal fire potential. Portions California, Oregon and Nevada will have above normal fire potential as well.

- Below normal fire potential will be much of the eastern half of the country, with the notable exception of the Great Lakes and south Atlantic states.



July
 - Above normal fire potential will be most of California, Nevada and Oregon of Washington and Idaho will also have above normal fire potential. Above normal potential will reduce to near normal in Alaska and the Southwest. Fire activity will become above normal in the Great Lakes states.

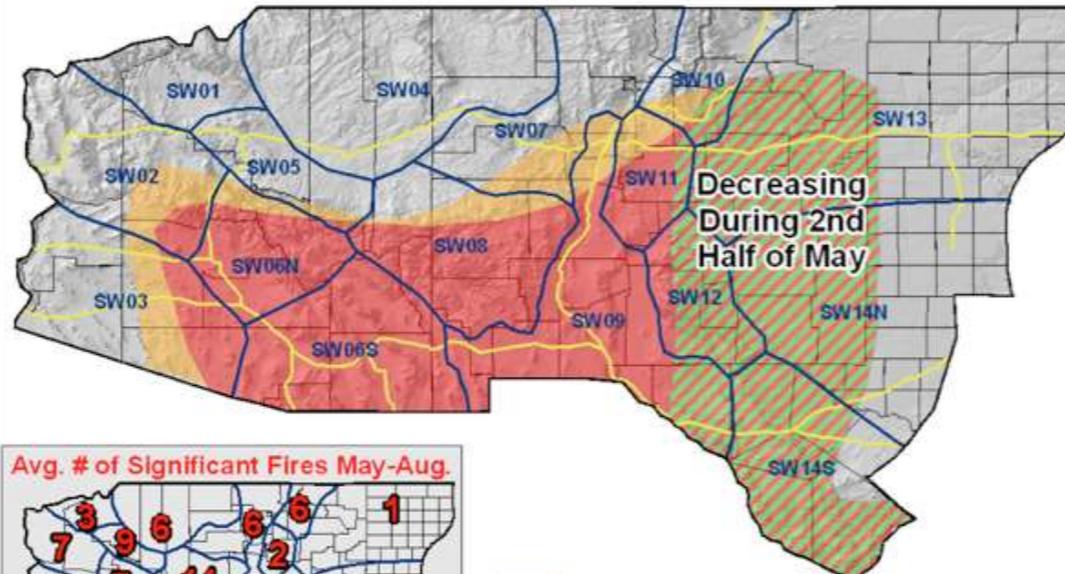
- Below normal fire potential will be northern Idaho, Montana and Wyoming and Colorado. Portions of the southeast will also continue to have normal fire potential.



August through September
 - Above normal fire potential will be most of California, Nevada and Oregon of Washington and Idaho will also have above normal fire potential. Fire activity will expand to cover most of the Northwest.

- Below normal fire potential over the Rocky Mountains will return to normal, with portions of the south central U.S. also showing below-normal potential.

Seasonal Significant Fire Potential Outlook Valid May through August 2009



Avg. # of Significant Fires May-Aug.



* Based on fire sizes which would require mobilization of additional resources from outside the immediate area (or PSA)

- Predictive Services Areas
- Decreasing from Above Normal 2nd Half of May
- Above Normal mid-May until Monsoon
- Increasing to Above Normal: June until Monsoon

Note that significant fire activity is normal during the Southwest fire season, and that this image depicts where Above Normal activity is expected.

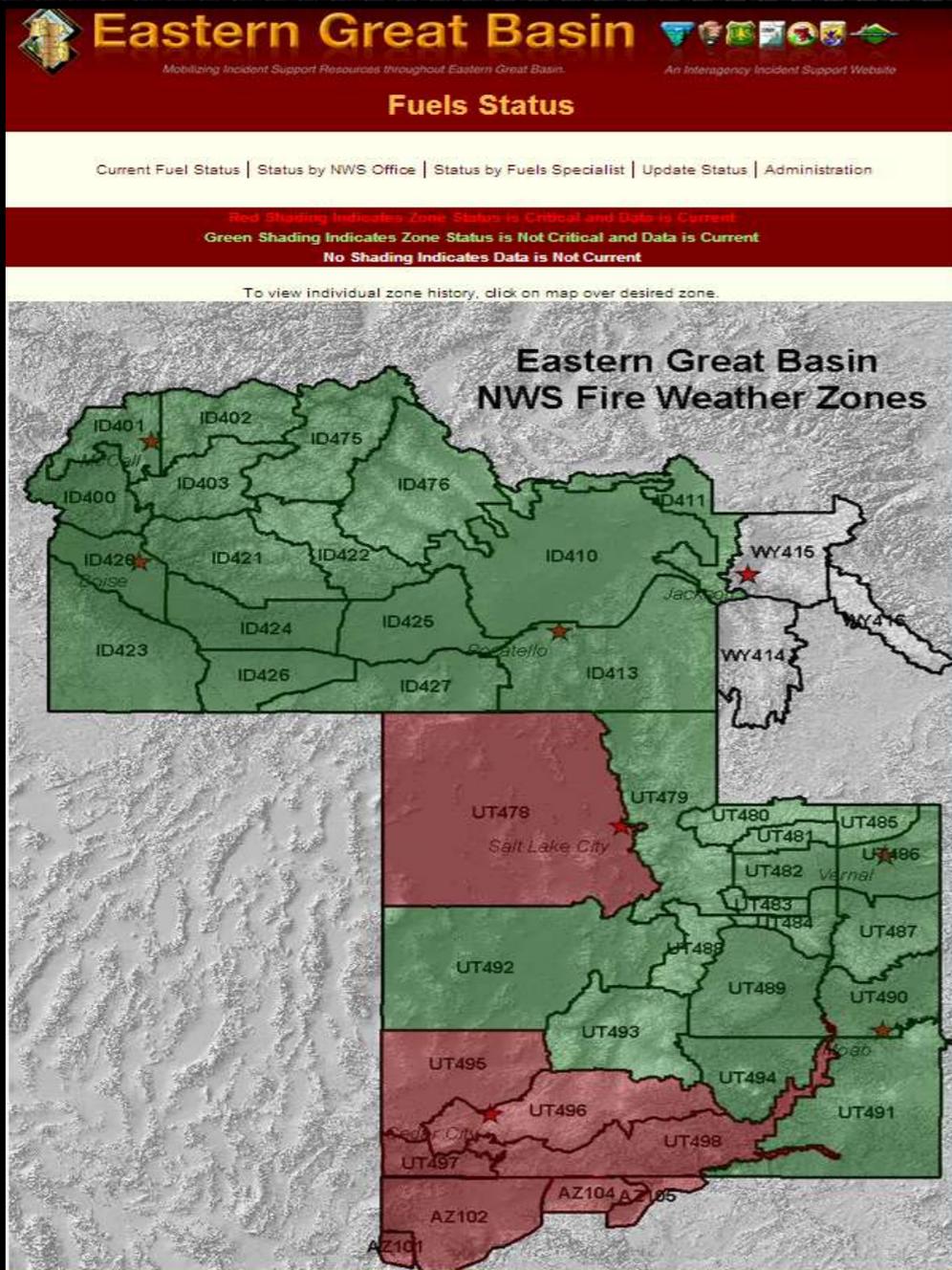
- Warmer and drier May-June conditions to promote westward & some northward expansion of Above Normal significant fire potential
- Wind events less likely, replaced instead by hot & dry conditions with moisture gradually increasing from the east
- Westward moisture surges to decrease fire potential east of New Mexico central mountain chain, but increase lightning chances for southwest NM/southeast AZ
- Fine fuel abundance from southwest NM/southeast AZ to central/west-central AZ
- Early to on time monsoon with adequate to abundant moisture

Please consult the [7-Day Significant Fire Potential](#) product through the season for up-to-date fire potential outlooks.

Also, consult the [National Seasonal Outlook](#) product for more information about the Southwest and rest of the U.S.

Products

Fuels Status Reports



Eastern Great Basin Fuel Status

Fuel Status by Weather Zone



[Fuel Status Home](#) [EGB Zone Map](#)

NOTE: The information displayed is intended as a briefing tool for NWS forecasters. For this purpose, CRITICAL FUELS is defined as "a condition such that if Fire Weather Watch / Red Flag Warning weather criteria are met (e.g., strong winds, low RH, dry lightning, etc.) the potential for starts will increase significantly and/or existing fires will exhibit extreme fire behavior and/or control problems". This information is not a substitute for NFDRS calculations or any other fuels assessment tool. If the zone has not been recently updated, the information is not current and the date updated will appear in **maroon** font.

Weather Zones

Zone	Critical Status	Critical Below (feet)	Remarks	Last Updated (Update Threshold)
AZ101	Yes	6,500	Cheat Grass has cured fuel loading in this area is 5-8 tons per acre. Large fire growth and rapid rate of spread can be expected in this area.	05/13/2011 (14)
AZ102	Yes	6,500	Cheat Grass has cured fuel loading in this area is 5-8 tons per acre. Large fire growth and rapid rate of spread can be expected in this area.	05/13/2011 (14)
AZ104	Yes	6,500	Cheat Grass has cured fuel loading in this area is 5-8 tons per acre. Large fire growth and rapid rate of spread can be expected in this area.	05/13/2011 (14)
AZ105	Yes	6,500	Cheat Grass has cured fuel loading in this area is 5-8 tons per acre. Large fire growth and rapid rate of spread can be expected in this area.	05/13/2011 (14)
ID400	No		Status has not been updated. Please contact the fuels specialist.	05/04/2011 (7)
ID401	No		Status has not been updated. Please contact the fuels specialist.	04/08/2011 (10)
ID402	No		Status has not been updated. Please contact the fuels specialist.	04/08/2011 (10)
ID403	No			05/20/2011 (7)
ID404	No			05/20/2011 (7)
ID408	No		Status has not been updated. Please contact the fuels specialist.	05/04/2011 (7)
ID409	No		Grasses are greening up at all elevations below snow level. Sagebrush live fuel moistures are increasing across the fire weather zone.	05/18/2011 (7)
ID410	No		Status has not been updated. Please contact the fuels specialist.	05/12/2011 (7)
ID411	No		Status has not been updated. Please contact the fuels specialist.	05/12/2011 (7)
ID412	No		Grasses are greening up at all elevations below snow level. Sagebrush live fuel moistures are increasing across the fire weather zone.	05/18/2011 (7)
ID413	No		Status has not been updated. Please contact the fuels specialist.	05/12/2011 (7)



Projects

ROMAN (Real-time Observations Monitor and Analysis Network)

QUICK LINKS help

Zipcode

LINKS

Status & News

MesoWest

GCA's

NWS Fire Weather

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ROMAN

Real-time Observation Monitor and Analysis Network

Geographic

Click in a Geographic Coordinate



GCA's CWAs States

Observations and Summaries

Region Product

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Current Weather Summary for Southwest

Settings:

Time: :00 UTC / / / mm/dd/yyyy

As of: 18:06 UTC 5/23/2011 [Sort by elevation](#)

SW01 Northwest AZ Southwest

Station	Elev	Time		TEMP	RH	WIND
		LOCAL	UTC			
BRIGHT ANGEL	8134 ft	1011MST	1711	55	31	6
DRY PARK	8706 ft	1038MST	1738	56	28	3
FRAZIER WELLS	6770 ft	1027MST	1727	59	25	16
KAIBAB-NK MICRO	7880 ft	1017MST	1717	54	30	3
LINDBERGH HILL	8800 ft	1012MST	1712	52	28	7
TUSAYAN	6570 ft	1008MST	1708	63	22	7
WARM SPRINGS CAN	8010 ft	1011MST	1711	57	22	7

SW02 West-Central AZ Southwest

Station	Elev	Time		TEMP	RH	WIND
		LOCAL	UTC			
AZTCA PORT1	4391 ft	1016MST	1716	68	20	16
CHERRY	5147 ft	1011MST	1711	65	25	13
CROWN KING	6078 ft	1047MST	1747	64	21	5
GOODWIN MESA	4200 ft	1001MST	1701	67	23	11
HAVASU	475 ft	1052MST	1752	86	18	7
HUMBUG CREEK	5250 ft	1048MST	1748	63	27	14
IRON SPRINGS	5385 ft	1006MST	1706	65	20	13
MOSS BASIN	5920 ft	1023MST	1723	61	26	8
MUSIC MOUNTAIN	5420 ft	1052MST	1752	66	28	6

SITE INFORMATION

ID: BATNS
 NAME: BATDRAW
 LATITUDE: 32.1786
 LONGITUDE: -104.4406
 ELEVATION: 4425 ft
 MNET: RAWS



(Click for topo/terrain map)
(Click for satellite)

SITE LINKS

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[Local Time](#)

[2 Week Summary](#)

[Past Data](#)

[Data Quality](#)

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[Data in Spreadsheet Format](#)

DATA COURTESY OF

[Bureau of Land Management](#)
 and
[National Park Service](#)

Weather Conditions for BATNS

Current time: May 23, 2011 - 18:07 GMT
 Most Recent Observations at May 23, 2011 - 17:52 GMT

	17:52	Max since Midnight	Min since Midnight	24 Hour Max	24 Hour Min
Temperature	86.0° F	86.0 at 17:52	71.0 at 11:52	91.0 at 21:52	71.0 at 11:52
Dew Point	11.3° F	17.8 at 14:52	9.0 at 9:52	23.1 at 18:52	9.0 at 9:52
Relative Humidity	6%	11 at 6:52	6 at 16:52	11 at 6:52	5 at 23:52
Wind Speed	15 mph from WNW	21 at 14:52	4 at 6:52	21 at 14:52	4 at 6:52
Wind Gust	27 mph	32 at 14:52	11 at 6:52	32 at 14:52	8 at 4:52
Solar Radiation	1139.0 W/m*m	1139.0 at 17:52	0.0 at 6:52	1146.0 at 18:52	0.0 at 3:52
Fuel Temperature	98.0° F	98.0 at 17:52	67.0 at 11:52	102.0 at 19:52	67.0 at 11:52
10 hr Fuel Moisture	2 gm	3 at 13:52	2 at 6:52	3 at 18:52	2 at 1:52
Battery voltage	13.40 volt	14.10 at 14:52	12.70 at 7:52	14.10 at 14:52	12.70 at 7:52

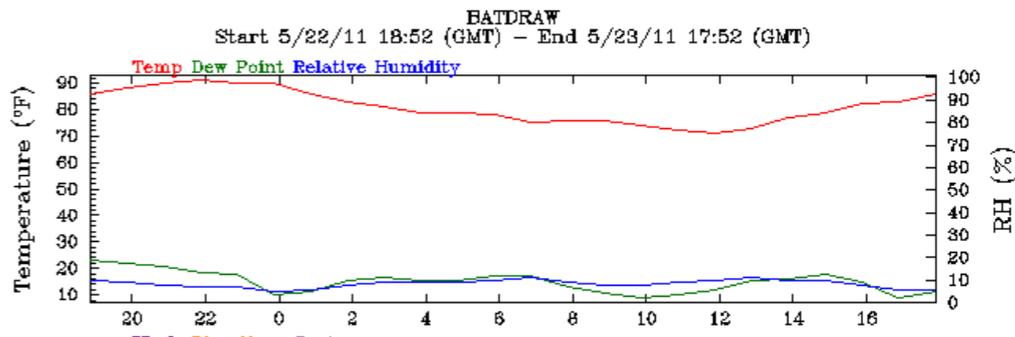
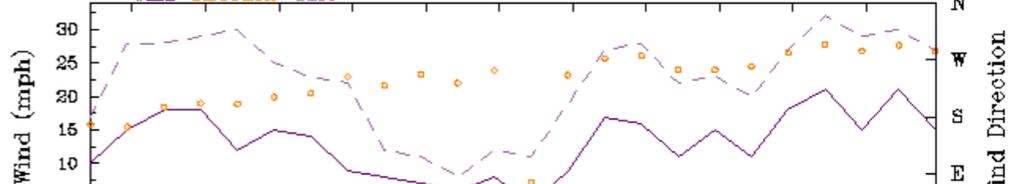
Precipitation accumulated since midnight: 0.00", in 24 hours: 0.00"

Tabular Listing: May 22, 2011 - 17:07 through May 23, 2011 - 18:07 GMT

Time(GMT)	Temperature °F	Dew Point °F	Relative Humidity %	Wind Speed mph	Wind Gust mph	Wind Direction	Quality check	Solar Radiation W/m*m	Precipitation in	Fuel Temperature °F	10 hr Fuel Moisture gm	Battery voltage
17:52	86.0	11.3	6	15	27	WNW	OK	1139.0	0.03	98.0	2	13.40
16:52	83.0	9.2	6	21	30	WNW	Caution	998.0	0.03	91.0	3	13.40

Select Previous Periods: [12 Hours](#) [24 Hours](#) [2 Days](#) [5 Days](#) [7 Days](#) [10 Days](#) [30 Days](#)

[Hodograph](#)



Projects

NFMD (National Fuel Moisture Database)

FUEL MOISTURE DATABASE

- Home
- About NFMD
- NFMD User's Guide
- Program Administration
- Add Fuel Moisture Data

REFERENCES

- Utah Fuel Moisture Guide
- Collection Form
- Site Description Form
- Sample Size Calculator

RELATED LINKS

- ROMAN
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- NWCG / FENWT
- Disclaimer
- Contact Us




○ Site Fuel Moisture ○ Com

Eastern Great Basin Fuel Moisture

Click Site Name or Map to View
Click Fuel Name to View

Updated 7 or fewer days ago Updated 8 to 14 days ago

- 1-Hour
- 10-Hour
- 100-Hour
- 1000-Hour
- Aspen, Quaking
- Bilberry, Dwarf
- Bitterbrush, Antelope
- Buffaloberry, Silver
- Ceanothus, Redstem
- Cheatgrass
- Cherry, Choke
- Douglas-Fir
- Duff (DC)
- Fescue, Idaho
- Fir, Subalpine
- Fir, White
- Huckleberry, Thinleaf
- Juniper, Rocky Mountain
- Juniper, Utah
- Manzanita, Greenleaf
- Ninebark, Pacific
- Oak, Gambel
- Pine, Lodgepole
- Pine, Ponderosa
- Pinegrass
- Pinyon, Twoneedle
- Sagebrush, Basin Big
- Sagebrush, Bigelows
- Sagebrush, Black
- Sagebrush, Mountain Big



National Fuel Moisture Database

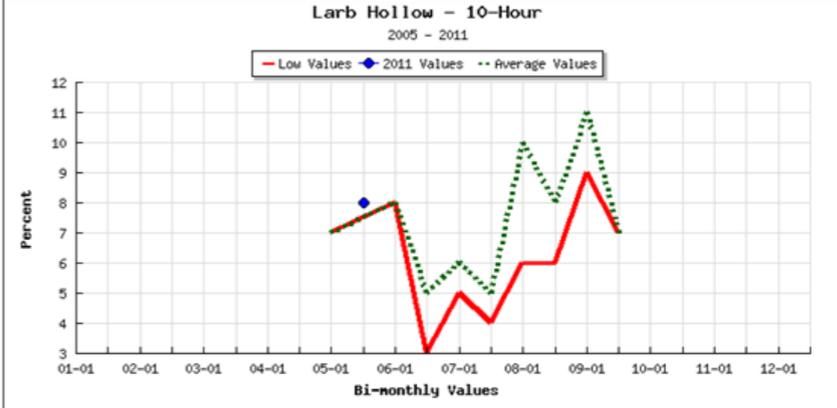
Larb Hollow (Bi-monthly Data)

Site Information | Larb Hollow RAWS | Close the Report

Gray background indicates that no current year data is available

Larb Hollow - 10-Hour

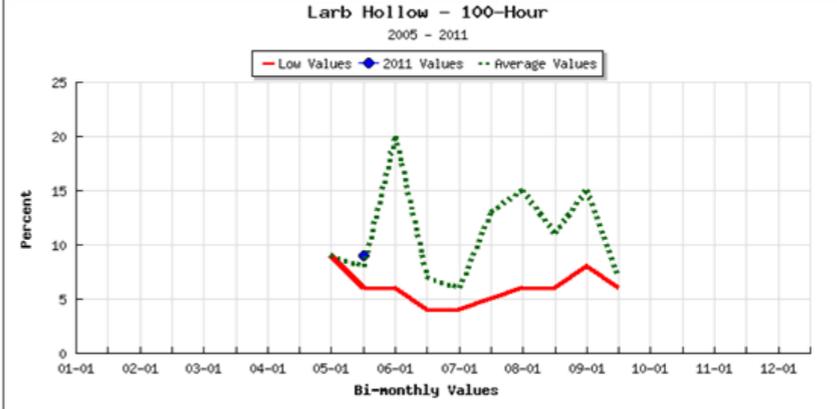
2005 - 2011



	01-01	01-15	02-01	02-15	03-01	03-15	04-01	04-15	05-01	05-15	06-01	06-15	07-01	07-15	08-01	08-15	09-01	09-15	10-01	10-15	11-01	11-15	12-01	12-15
2011										8														
Avg									7		8	5	6	5	10	8	11	7						
Low									7		8	3	5	4	6	6	9	7						

Larb Hollow - 100-Hour

2005 - 2011



	01-01	01-15	02-01	02-15	03-01	03-15	04-01	04-15	05-01	05-15	06-01	06-15	07-01	07-15	08-01	08-15	09-01	09-15	10-01	10-15	11-01	11-15	12-01	12-15
2011										9														
Avg									9	8	20	7	6	13	15	11	15	7						
Low									9	6	6	4	4	5	6	6	8	6						



Interactions

- Coordinate critical forecasts
- Establish operating procedures and guidance
- Collaborate on research and development
- Training

Questions?



2014 Early Season Status & Outlook

National Predictive Services

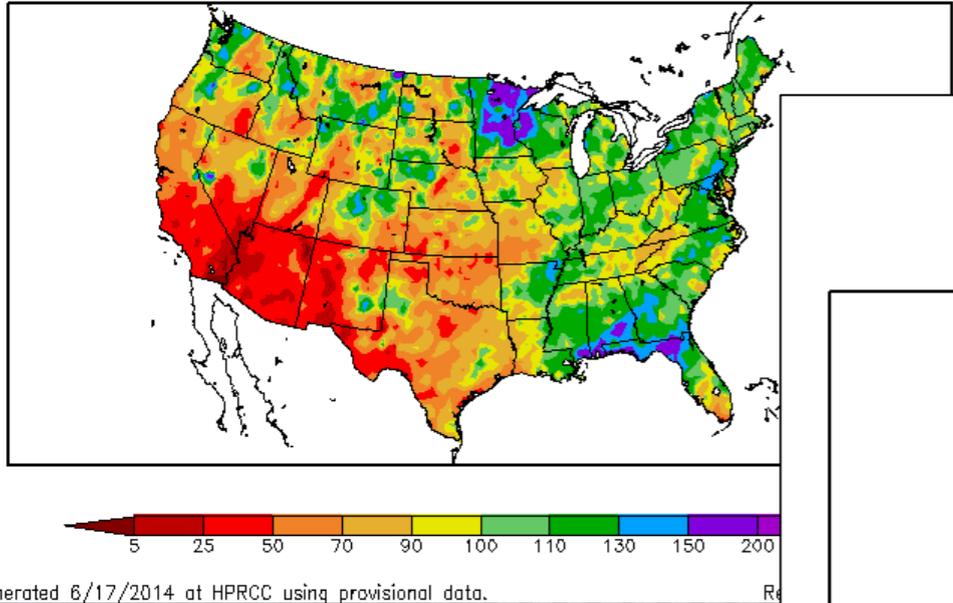
Ed Delgado
Jeremy Sullens
Coleen Decker



Recent Precipitation

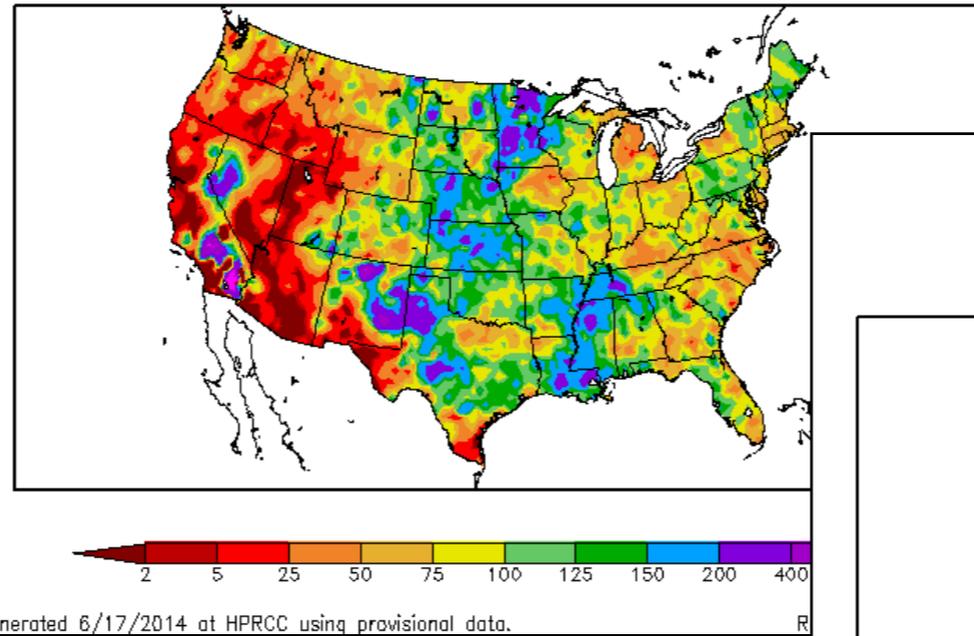
Last 180 Days

Percent of Normal Precipitation (%)
12/17/2013 – 6/16/2014



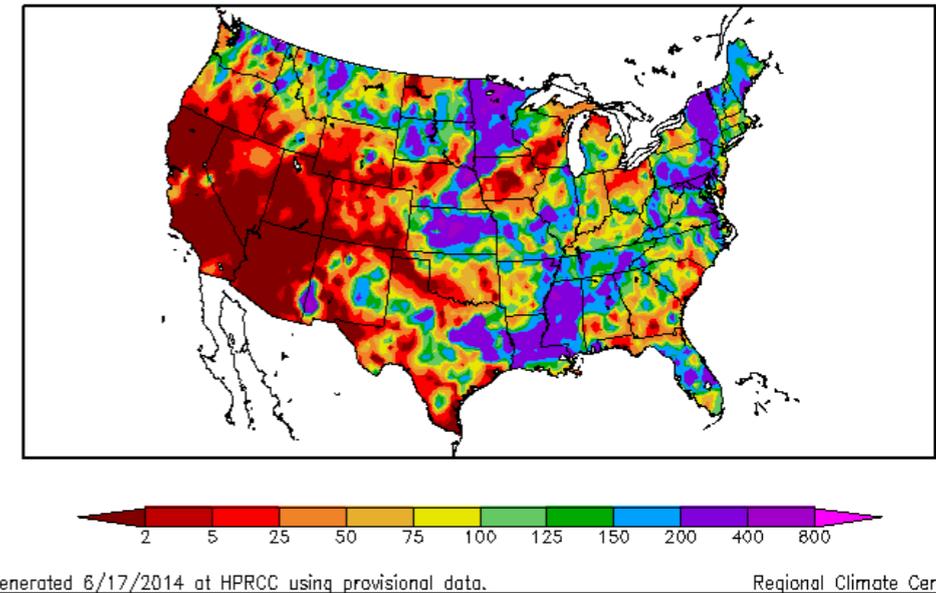
Last 30 Days

Percent of Normal Precipitation (%)
5/18/2014 – 6/16/2014



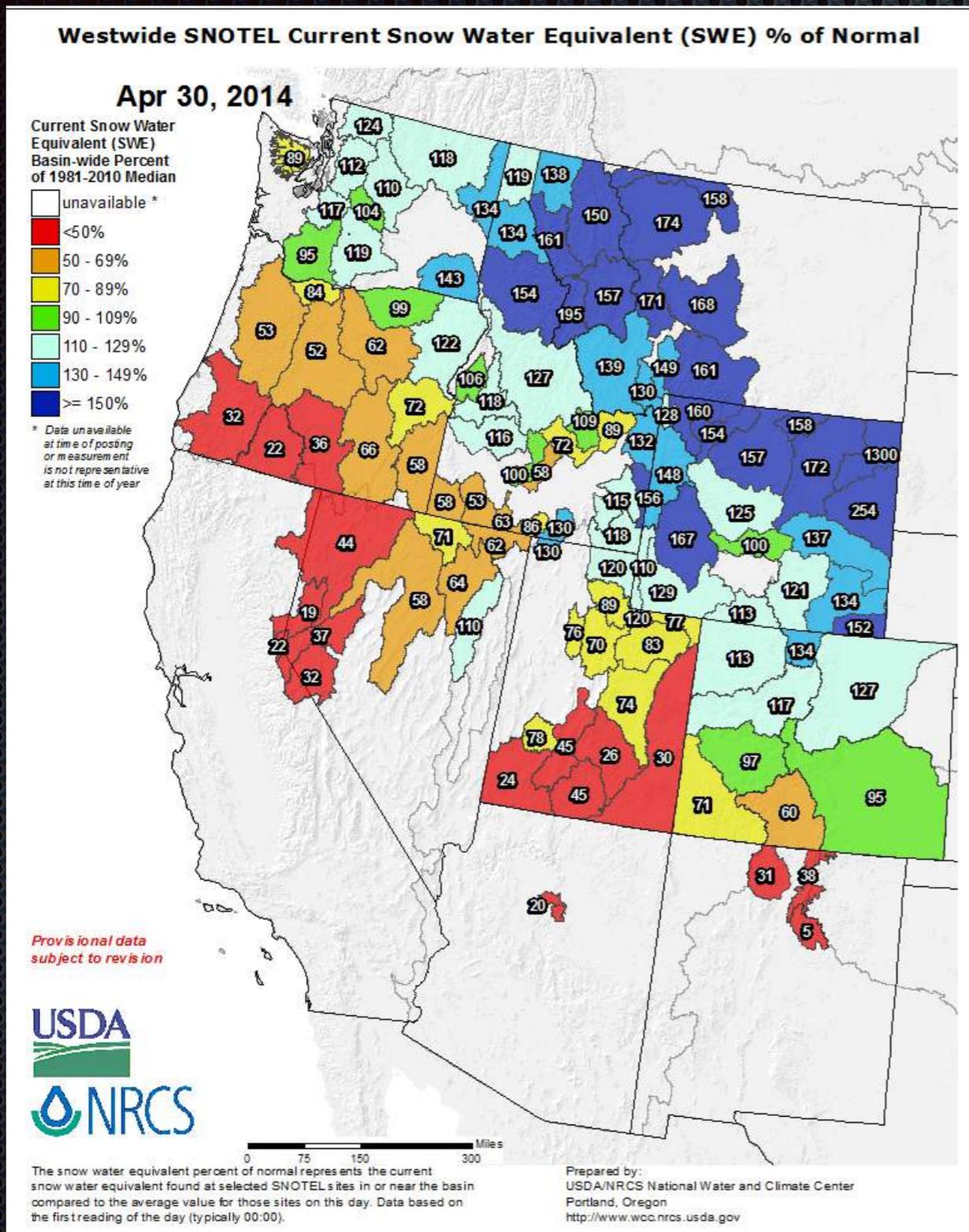
Last 7 Days

Percent of Normal Precipitation (%)
6/10/2014 – 6/16/2014



Source: High Plains Regional Climate Center (from Regional Climate Center provisional data)

Current Snow Conditions



Source: Natural Resources Conservation Service



Source: NOAA/NWS California-Nevada River Forecast Center

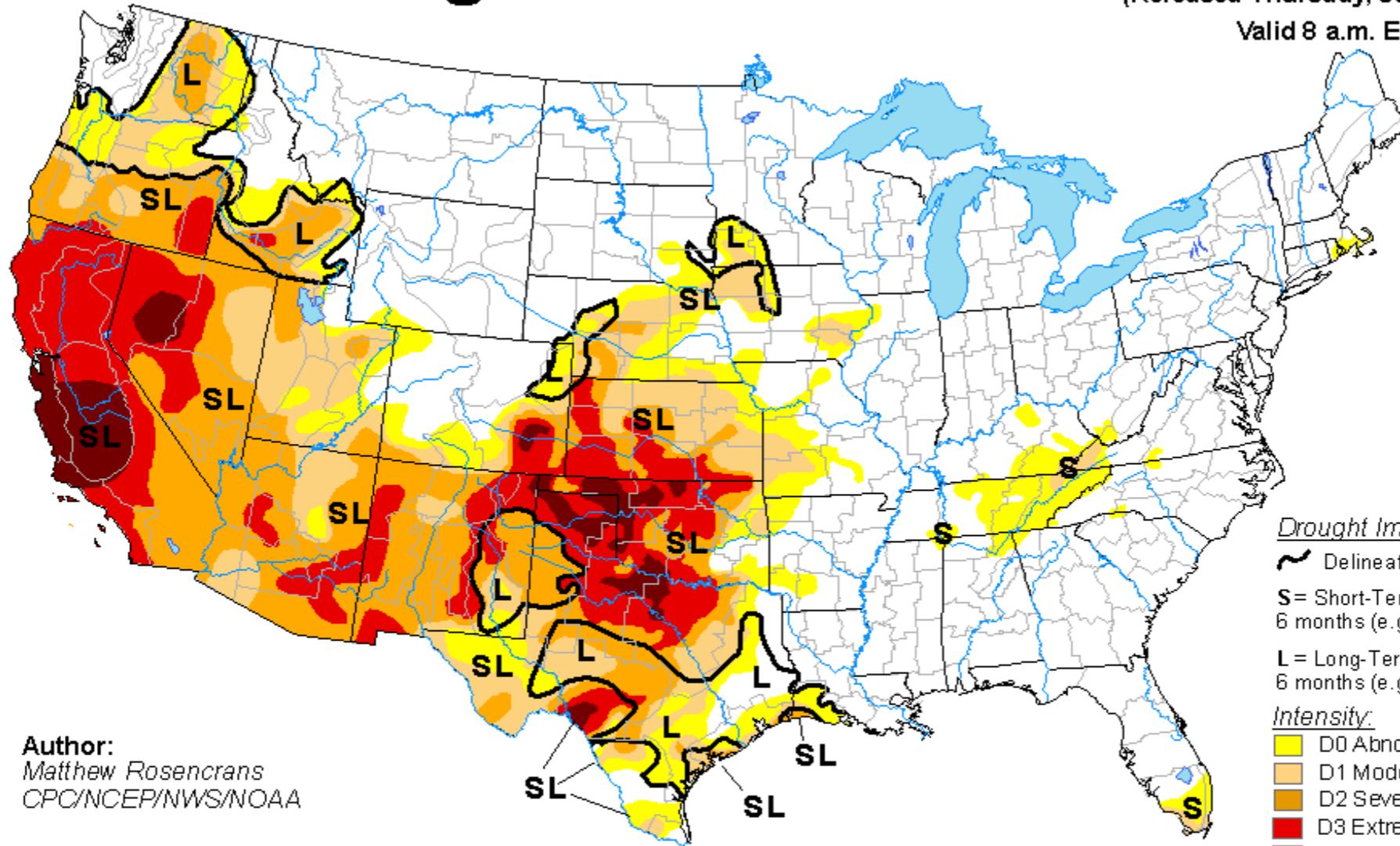
Latest Drought Conditions

U.S. Drought Monitor

June 10, 2014

(Released Thursday, Jun. 12, 2014)

Valid 8 a.m. EDT



Author:
Matthew Rosenkrans
CPC/NCEP/NWS/NOAA

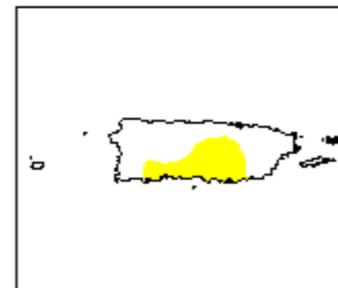
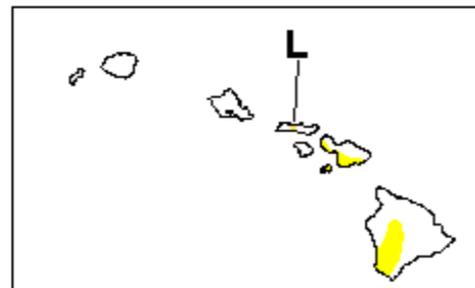
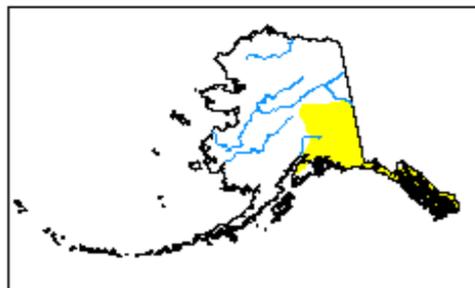
Drought Impact Types:

- ~ 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:

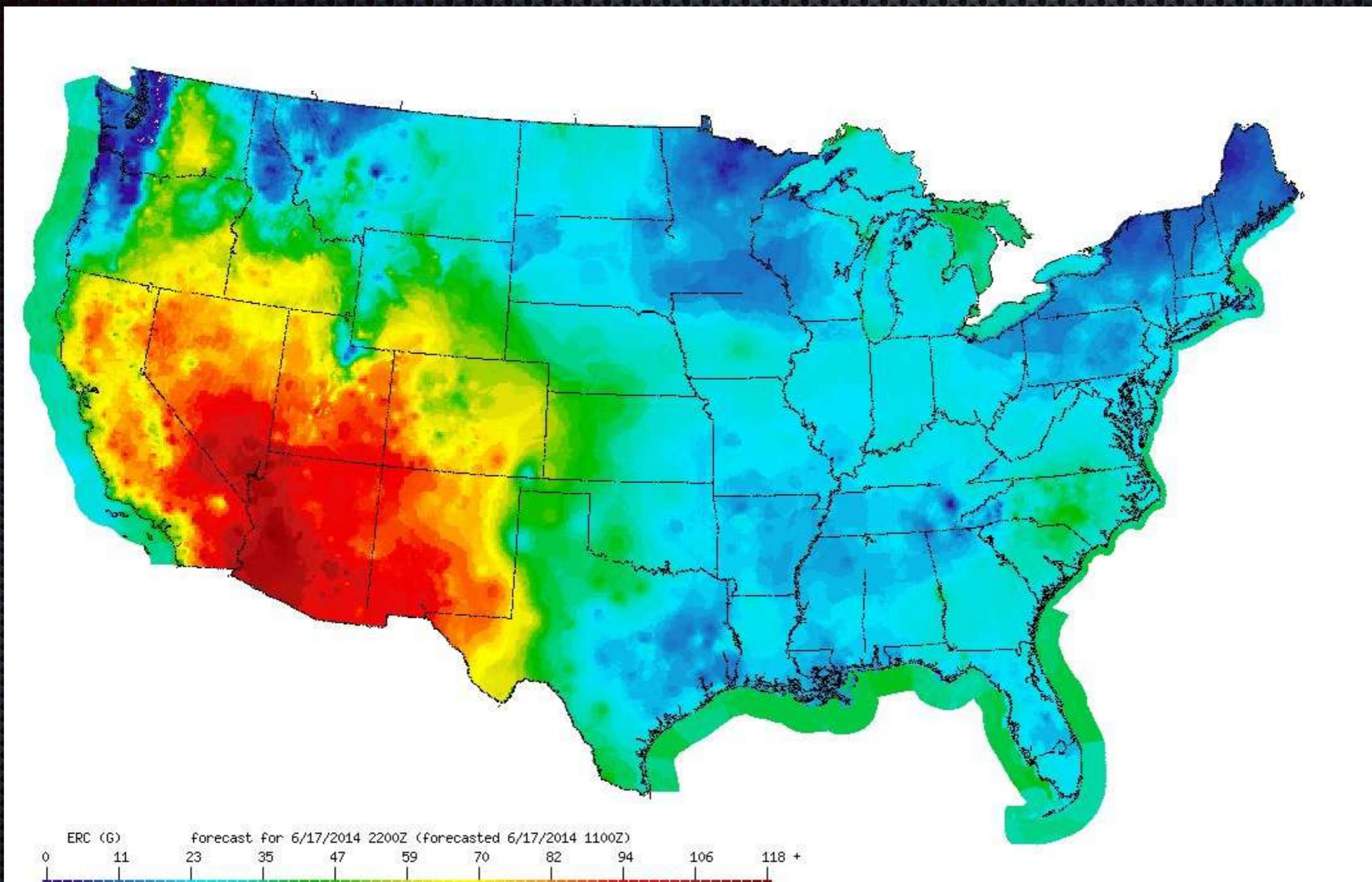
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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



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

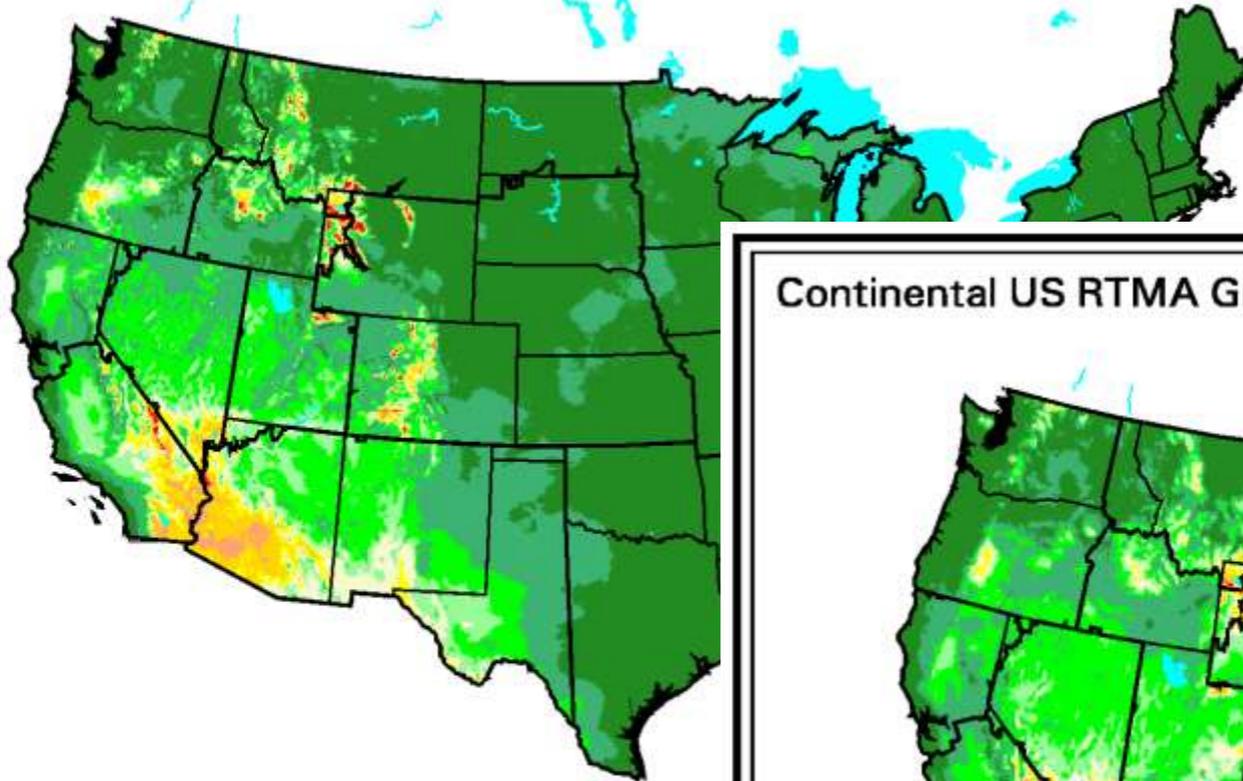
Energy Release Component



Growing Season Index

2014

Continental US RTMA Growing Season Index: 06/15/2014



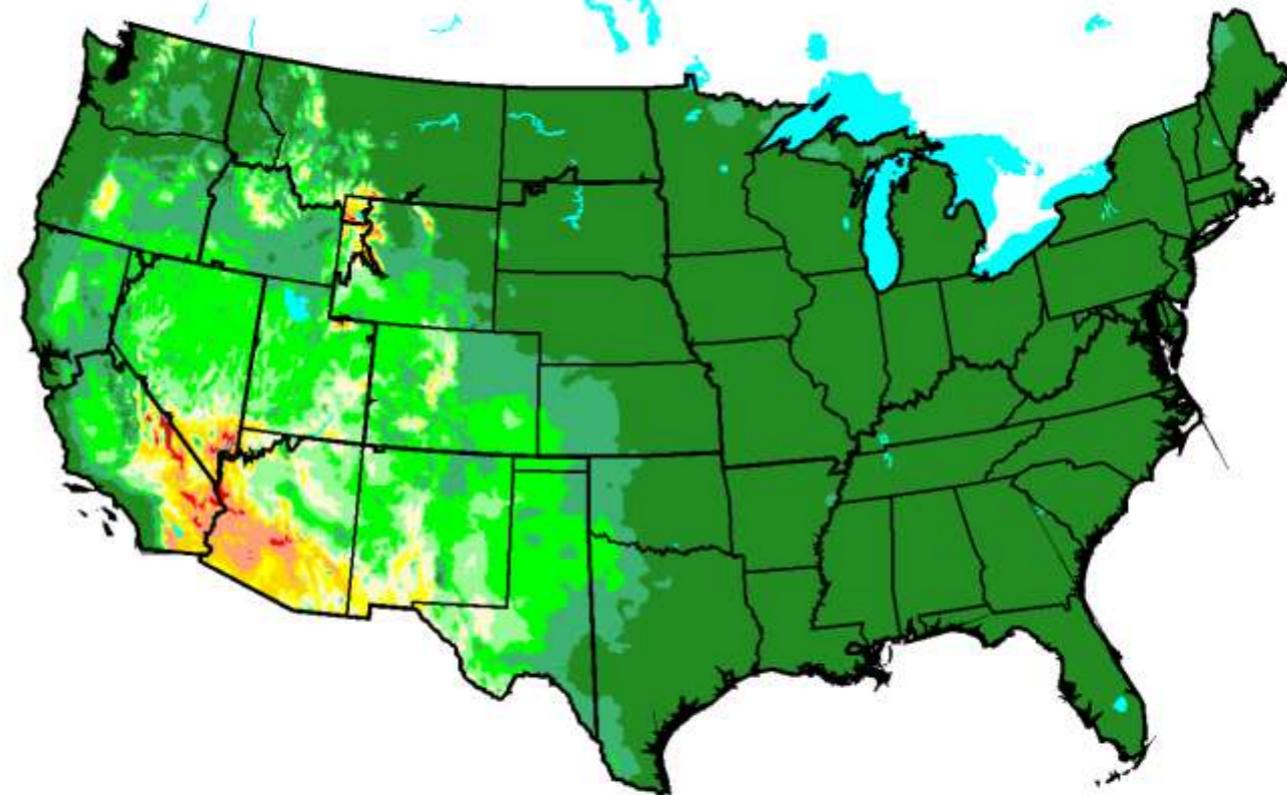
FireLab
MOSCOW, IDAHO



WFAS-MAPS

2013

Continental US RTMA Growing Season Index: 06/17/2013



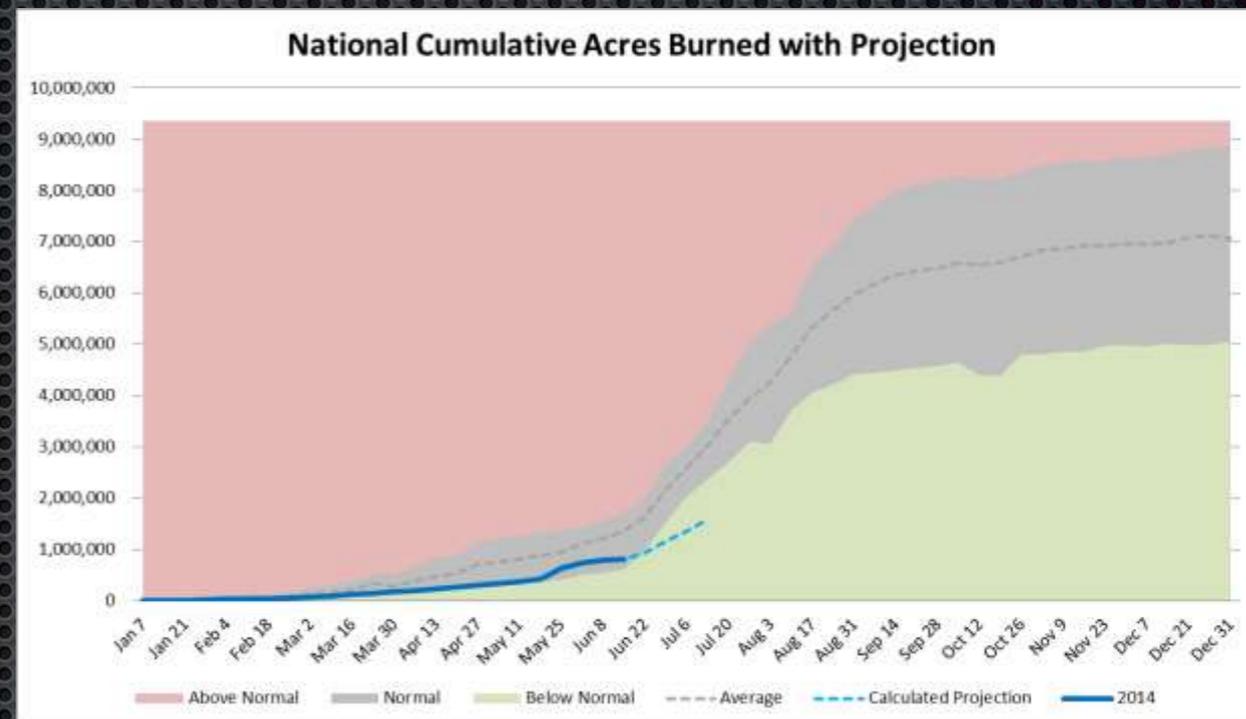
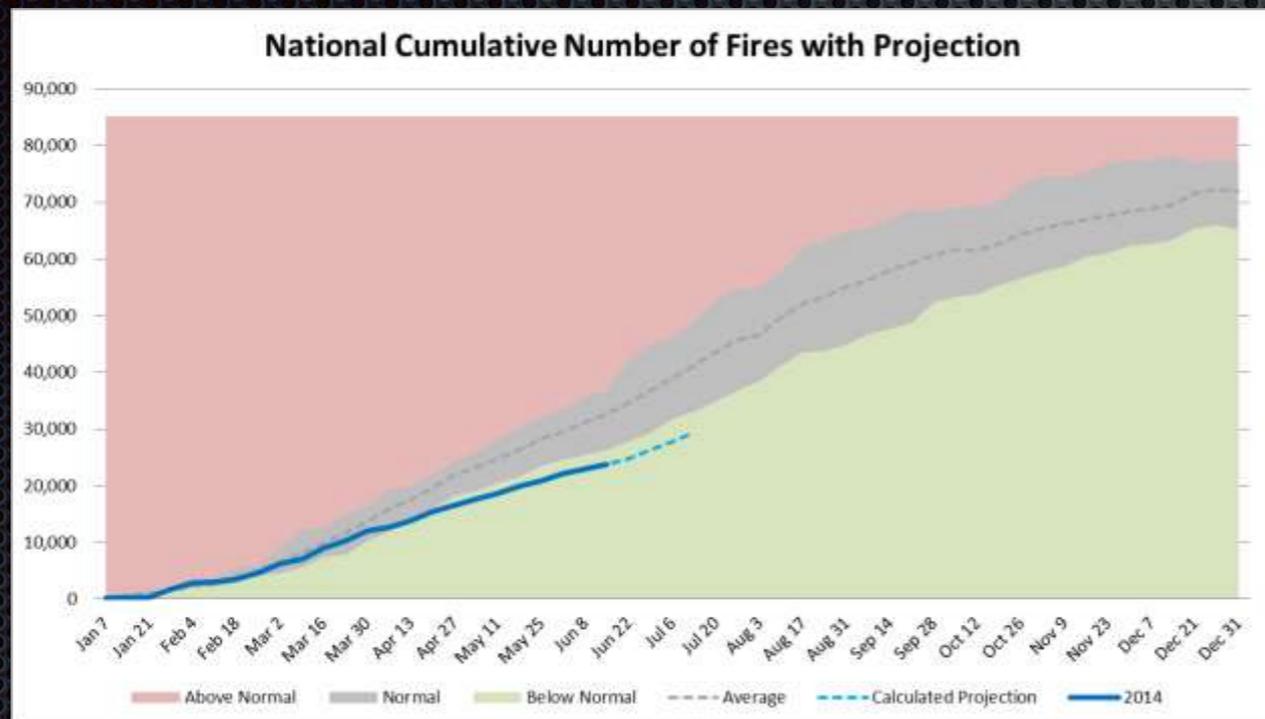
FireLab
MOSCOW, IDAHO



WFAS-MAPS National Interagency Fire Center



Current Fire Statistics



June 17	2014	2013	10 yr Average
	Fires = 23,781 (71%) Acres = 809,968 (53%)	Fires = 19,894 (57%) Acres = 479,181 (29%)	Fires = 34,450 Acres = 1,639,601

*Current as of 6/17/2014

Current Outlook

